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For Relailer, Wholesaler and Manufacturer

JUNE 13 1964

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- Tynex tufts angled to clean between the teeth.
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- Withstands regular sterilization with boiling water.
- Unique toothbrush with complete guarantee.

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FOR ALKALOIDS and FINE CHEMICALS



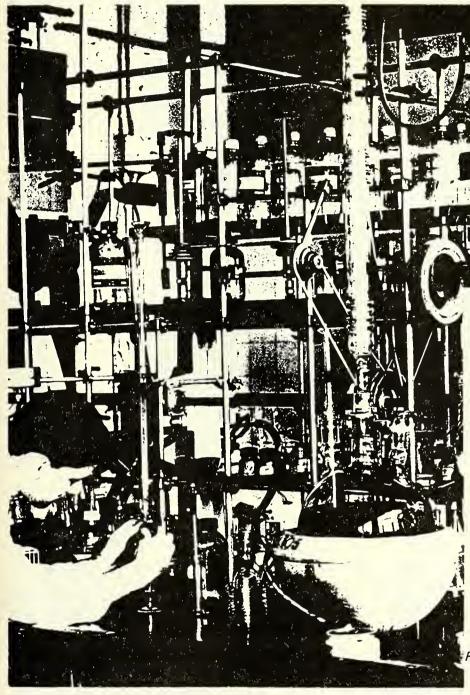


in BRUSSELS as in many other centres we serve the pharmaceutical industry.

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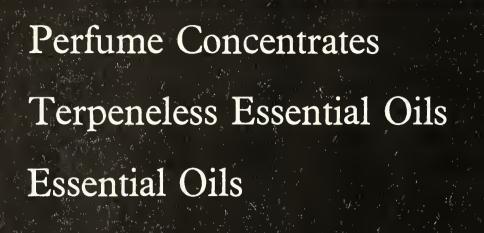
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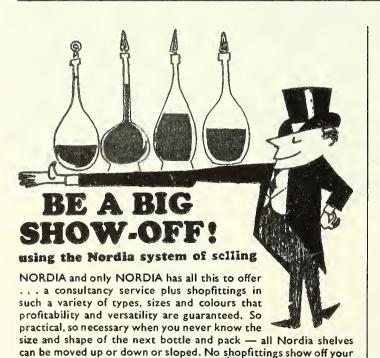
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Chas. Zimmermann & Co. Ltd.

Dega Works, Walmgate Rd., Perivale, Middlesex

phone: Perivale 9121





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merchandise better than Nordia . . . no shopfittings allow you

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greater scope to impress your

personality upon your premises

(and go on doing so!) A Nordia-

planned shop is tailor-made

DIETETIC - DIABETIC JIFFI-JEL

ready - to - serve in individual portions



This new product of Yeatman Ltd., Food and Confectionery Manufacturers, is fat free and contains no carbohydrate. These jellies make a great addition to the range of ordinary diets, being comprised mainly of Protein. There is no contra indication to the user.

sugarless • low calorie

JAR

composition protein 4.5% carbohydrate nil

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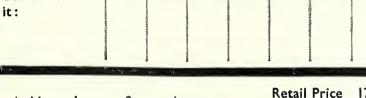
INDEX TO ADVERTISERS

Amplex Appliances (Kent), Ltd	Lobby & Co
André Philippe, Ltd. 4	Macarthys, Ltd 5
Askit, Ltd	Macdonald & Son, Ltd
	Macfarlan Smith, LtdCover ii
British Dyewood Co., Ltd	Mason, Wm., & Son, Ltd
Burroughs Wellcome & CoPrice List Sup., Page 1	Matthews & Wilson, Ltd. 24 Maund & Berg, Ltd. 24
Continental Cosmetics, LtdFront Cover	Wating & Berg, Etc.
Cox, Arthur H., & Co., LtdCover iv	New Era Laboratories, Ltd
Dista Products, LtdInterleaved Edit., 22	Philips Electrical, Ltd
Farbenfabriken Bayer A.G. Abteilung (AGFA)	Photopia, Ltd.
Interleaved Edit., 11, 12, 13, 14	Rhone-Poulenc
Fencolor Laboratories, Ltd	Robinson & Sons, Ltd. (Chesterfield) Cover iii
	Robinson & Sons, Ltd. (Paddi Pads)
Golden, Ltd. (Ambre Solaire)	Rochdale Metal Products, Ltd.
Golden, Ltd. (Color-Glo)	Rudduck & Co. (Shopfitters), Ltd.
Golden, Etd. (Emett)mtericaved Edit., 20	Scott & Bowne, Ltd
Illingworth, E., & Co. (Bradford), Ltd 9	Stafford-Miller, Ltd. 28
Ilon Laboratories	Suttley & Silverlock 24
InectoInterleaved Edit., 16, 17	With the Table Table Total Country of Edit 16
International Bottle Co., LtdInterleaved Edit., 18	Vitamins, LtdInterleaved Edit., 15
Jackel & Co., Ltd	Yeatman & Co., Ltd.
Lantigen (England), Ltd	Zimmermann, Chas., & Co., Ltd 2,3



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You can recommend a MACROM Syringe Case with confidence because it:



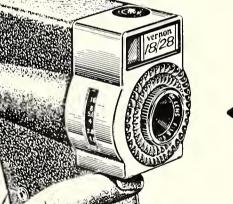
- holds a 1cc or 2cc syringe capacity of any make or design.
- holds six needles of any make or design.
- * is completely spirit proof.
- is styled in a modern manner.
- is unbreakable.

Retail Price 17/-Trade Price 12/9 From your usual wholesaler or from:

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Macrom House, Seymer Road, Romford Telephone: ROmford 46021







... is the Vernon 18/28 cine camera — an absolute winner at only £19. 19. 0. Fully automatic exposure control, automatic film wind by the electric motor, automatically in focus continually from 5 feet to infinity, film spool

automatically on the correct spindle. Automatically the best seller for 1964. £19.19.0

For full details write:

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COVER THE FAMILY



PHILISHAVE ENVOY (Floating Head Model) World-famous Rotary Action plus self-adjusting Floating Heads for the supreme luxury of 'Personal Touch' shaving. AC/DC 100-130v. and 200-240v. £8.12.6

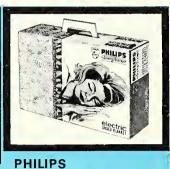


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The new battery shaver—
completely self-contained
for superb Rotary Action
shaving anytime,
anywhere. No flex at all!
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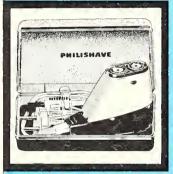


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Ideal for trimming and hairdressing for all the family. Available for use with both Floating Head and Flip-Top models of the 'Philishave'. £2.2.0 Hair Trimmers for trimming moustaches and 'sideboards'. 17/6

PHILIPS HOME



ELECTRIC BLANKETS
The superb range of
dependable underblankets
for luxurious, welcoming,
all-over warmth in bed.
Controlled Heat, 3-Heat
Standard, Standard, and
Family, at prices from as
little as £3.19.6 and
all in colourful
'carry-home' packs.



PHILISHAVE SUPERJET (Fixed Head Model) Fantastic value—never before a dual-volt Rotary Action 'Philishave' at such low cost! AC/DC 110-130v. and 200-250v. £6.6.0



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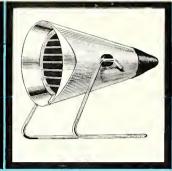
PHILIPS
3-SPEED FOOD MIXER
Powerful, portable,
practical, with the right
speed for every type of

mix. £8.18.6



HEALTH LAMPS
Ultraphil The market-leader among ultra-violet lamps, famous for its health-giving 'Alpine Sunshine'. £8.8.0

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Infraphil with
Concentrated Beam.
Increasingly in demand for
faster, more effective
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Philips Health Lamps are
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consumer, of a signed
medical certificate.



PHILIPS HAIR DRIERS
Hand Model Light and
easy to carry, ideal for use
in the home or when
travelling. Unique variable
air-control. £3.9.11
Optional extras: Stand
12/6; Hose and
Air-Diffuser Hood £2

Hood Model Designed on the straight airstream principle to give the fastest, most efficient drying at home—smooth, even. professional. £8.10.0 Optional extra:



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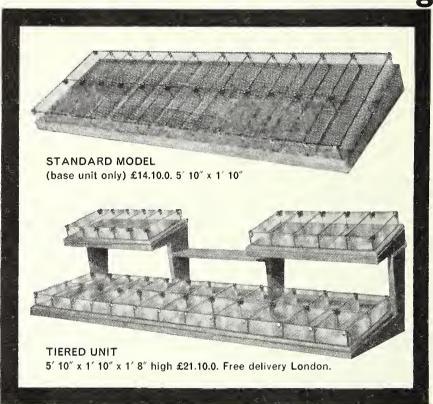
Rudduck self selection units take all effort out of selling

"Help yourself" appeal is immensely enriched by attractive tiered self-selection counter trays like that on bottom right, with central service shelf and dressing space at back. Handsomely finished in polished light oak shade. Sloping base comprises 24 compartments. Ten more at top. Adjustable glass divisions set off small merchandise to best advantage.

★ Write for fully illustrated counter catalogue.

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RUDDUCK & CO. (Shopfitters) LTD. 70-74 CITY ROAD, LONDON, E.C.1 Telephone CLErkenwell 2116 (5 lines) Near Old St. Underground station



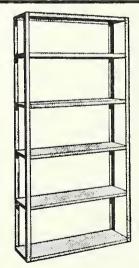
IMPORTANT ANNOUNCEMENT

Lantigen (England) Ltd. announce that as from July 1st distribution of Lantigen products will be undertaken by

RICHARDS & APPLEBY LTD.,

York House, Westminster Bridge Road, London, S.E.I, to whom all orders and correspondence should be sent with effect from the above date.

LANTIGEN (ENGLAND) LTD. BAGSHOT, SURREY.



BRAND NEW

Free delivery, N. Scotland, Ireland, I.O.M. 10% extra.

71" high × 34" wide, 12" deep with 6 shelves as Hlustrated. C.W.O.orC.O.D.

Each shelf will hold over 3 cwt. Shelves adjustable every 2". Stove enamelled dark green. White enamel units 50% extra.

Height 71" 71" 71" 85" 65"	Widsh 34" 34" 331" 331"	Depth 9" 12" 15" 18"	No. of Shelves 6 6 6	Price 58/- 60/- 69/- 81/- 68/-	Price each 3 or more 56/- 58/- 67/- 79/- 66/- 84/-	Extra Shelves 7/- 8/- 9/6 11/6 8/-	
85"	42"	12"	6	86/-	84/-	11/-	

HANDY DRAWER UNIT **BRAND NEW**

42" high, 13" wide, 12" deep. 20 DRAWERS: 5" wide 3" high, 11½" long. Stove enamelled dark green. Direct from manufacturers. Write C.W.O. or C.O.D. now for list of other sizes.

Buy direct from the manufacturers.

ROCHDALE METAL PRODUCTS

Dept. C.D., Shawclough Works, Waterfoot,
Rossendale, Lancs, ROSsendale 2450
Contractors to H.M. Government and United Kingdom Atomic Energy Authority EXPORTERS OF STEEL SHELVING







THE CHEMIST AND DRUGGIST

THE WEEKLY NEWSPAPER FOR PHARMACY and all sections of the drug, pharmaceutical, fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and of the Pharmaceutical Society of Northern Ireland

Volume 181

June 13, 1964

No. 4400

CONTENTS

Any Business Questions	?			600
Branch Events	• • •			595
Correspondence				596
Leading Articles:				
Finding Money for M	1edical	Resear	ch	597
Payment of Tax at I	Disputed	d Figu	res	597
National Pharmaceutical	Union	• . •	• > •	603
New Products and Packs			,	592
"Open Shop"		• • •		598
Pharmaceutical Society of				
Council Meeting				599
Pharmacy in a Developi	ng Cou	ntry		601
Photographic Notes		•••		593
Safety of Drugs				595
Statutory Committee	× • •			588
Topical Reflections	* * *			587
Trade Notes		• • •		594
Trends in N.H.S. Prescr.	ibing		• • •	589
Business Changes 591		eff come		507
Coming Events 607	Manufa	cturere,	Activ	587
Commercial Television 607	New Co			
Company News 590	Patents			
Contemporary Themes 607	Personal			
Deaths 591				gy 600
Expansion Plans 589	Print ar			
Information Wanted 594	Trade N	Aarke	•	608
In Parliament 590	Trade R	Leport		604
Inquests 591	Wills		•••	606
Legal Reports 590	World '	Γrade	•••	606

PUBLISHED BY

Index to Advertisers, p. 4. Classified Advertisements, p. 29.

MORGAN BROTHERS (PUBLISHERS), LTD., at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565

MEMBER OF THE AUDIT BUREAU OF CIRCULATIONS

MORGAN BROTHERS (PUBLISHERS), LTD. 1964

GLASGOW: 160 Nether Auldhouse Road, S.3. Phone: Langside 2679. LEEDS, 16: 32 Wynford Rise, West Park, Phone: Leeds 67 8438. WOLVERHAMPTON: 89 Woodland Avenue, Tettenhall Wood.

Phone: Wolverhampton 52301.

ANNUAL SUBSCRIPTION which includes The Chemist and Druggist Diary and Year Book, £3 10s. Single copies 1s. 3d. each (postage 5d.).





Diamon Deb is the sleekest, supplest nail-styler yet, made with millions of tiny diamonds and sapphire crystals. Diamon Deb just smooths nails into shape —easier than an emery board, faster than a file. Now, women can throw away those old-fashioned files they've always hated. Diamon Deb doesn't jar nerves or tear nail edges, so nails grow longer and stronger than ever before. When women learn about Diamon Deb they'll rush to buy it. Make sure they can buy it from you.

Sparkling advertising in Mirror, Mail, Express

Yes—a big striking ad every week in each of these mass-appeal papers right through July and August!

Sparkling dispenser stand

The compact
Diamon Deb
dispenser stand does
a full-selling job
on your counter.
Women can't resist
the try-it-yourself
nail-styler!

Order the bonus parcel

Generous introductory bonus offer that brings you a still bigger margin. Ask your Scott & Bowne rep., or write direct to Scott & Bowne Limited, 50 Upper Brook Street, W.1. Volume 181

JUNE 13, 1964

No. 4400

Advertising by Pharmacists

A REMINDER BY THE SOCIETY'S COUNCIL

THE Council of the Pharmaceutical Society has issued a reminder to its members of advice it has previously given on the advertising of dispens-

ing services.

The Council's memorandum quotes the paragraph in which the subject is dealt with in the statement upon Matters of Professional Conduct, repeats the additional advice published in 1958 and repeated in November 1963, and quotes the section on advertising included in the report on the General Practice of Pharmacy. In recent months, it declares, there has been an increase in the publication by newspapers of illustrations of pharmacies with editorial matter and advertisements relating to products they sell. The Council deprecates that practice. The occasion for such announcements may be the rebuilding or modernisation of premises, and some-times claims are made that the firm is of long standing and reliable, carrying the implication that the pharmacy is superior to other pharmacies in the neighbourhood. For that reason the announcements are professionally unacceptable. In the Council's view any statement relating to a new pharmacy that is submitted to a newspaper for publication should be limited to a single announcement of the name and address of the owner and date of opening.

Agricultural Chemicals

MORE APPROVED PRODUCTS

THE Agricultural Departments of the United Kingdom announce that the following products have been approved under the Agricultural Chemicals Approval Scheme:—

Insecticides

DICHLORVOS.—An organophosphorus compound for the control of mushroom flies and certain glasshouse pests (aphids, red spider mites, thrips and whiteflies). LIQUID FORMULATIONS: Nogos 50EC (CIBA Laboratories, Ltd.).

Fungicides

DINOCAP,—WEITABLE POWDER FORMULATIONS:
Bugges AM62 fungicide (Bugges Insecticides,
Ltd.).

ZIRAM.—For the control of apple scab (post blossom) and pear scab. WETTABLE POWDER FORMULATIONS: Mi-Dox Fuclasin Ultra (Midox).

Herbicides

2,4-DB WITH MCPA POTASSIUM AND SODIUM SALT FORMULATIONS; Redlegor (J. D. Campbell & Sone Ltd.)

DICHLORPROP POTASSIUM SALT FORMULA-TIONS: JMS 2,4-DP (J. M. Stokes, Ltd.); Profarma dichlorprop (2,4-DP) (Profarma, Ltd.). DINOSEB FORMULATIONS IN OIL: Atlas DNBP in oil (Atlas Preservative Co., Ltd.); Haulmone (Universal Crop Protection, Ltd.); Comma-Cide DNBP (potato haulm killer, Comma Oil Co., Ltd.).

MCPB SODIUM SALT FORMULATIONS: Bugges MCPB selective weedkiller concentrate (Bugges Insecticides, Ltd.),
MCPB WITH MCPA POTASSIUM AND SODIUM

MCPB WITH MCPA POTASSIUM AND SODIUM SALT FORMULATIONS: Bellmac Plus (J. D. Campbell & Sons, Ltd.)

bell & Sons, Ltd.).

MECOPROP WITH 2,4-D AMINE SALT FORMULATIONS; Chipko 4 (Chipman Chemical Co. Ltd.)

Co., Ltd.).

MECOPROP WITH FENOPROP POTASSIUM AND SODIUM SALT FORMULATIONS: J.M.S. CMPP + 2,4,5,-TP (J. M. Stokes, Ltd.).

Soft Drinks

NEW REGULATIONS ISSUED

NEW regulations governing the composition and labelling of soft drinks have been issued under the Food and Drugs Act, 1955 (S.I., 1964: 760. H.M. Stationery Office, price 1s. 3d. net). They apply to England and Wales and will replace, on June 2, 1965, the amended Food Standards (Soft Drinks) Order, 1953. From that date saccharin calcium; saccharin sodium; cyclohexylsulphamic acid, and calcium and sodium cyclamates, become permitted artificial sweeteners in addition to saccharin. Stricter limitations are imposed on descriptions and labelling, and special requirements are laid down as to the composition and labelling of soft drinks for consumption by persons suffering from diabetes, and for low calorie soft drinks. Similar regulations (S.I., 1964: 767 (S.46)) have been issued for Scotland. The regulations do not apply to soft drinks intended for export or to sales to manufacturers for the purposes of their business.

Misuse of Drugs

CONCERN IN SCOTLAND

THE Secretary of State for Scotland has asked Executive Councils in Scotland to inform doctors of his concern about the quantities of pharmaceutical preparations containing amphetamines or barbiturates that are reported to be freely available in some large towns. General practitioners are being requested to support a recommendation that they should use words and not figures for the quantity ordered when issuing prescriptions for such preparations to known addicts, temporary residents and patients known to have previously altered or forged EC10's. They are reminded of the need for any alteration of, or addition to, a prescription to be initialled by the prescriber.

Opportunities in Industry

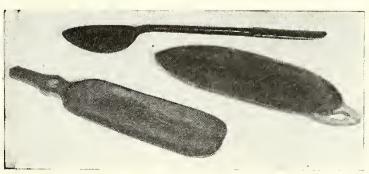
A GUIDE FOR ENTRANTS

IN a booklet just published, "A Career in the British Pharmaceutical Industry," the Association of the British Pharmaceutical Industry, Mercury House, 195 Knightsbridge, London, S.W.7, caters for entrants at all stages. It gives information useful to both sixteen-year-olds with a General Certificate of Education at Ordinary level and Arts and Science graduates or doctors. It covers all aspects of the industry from research, development and production, through management, marketing and representation to export and whole-saling. Amply illustrated, the guide includes a tabular summary of careers and the steps leading to them, a digest of facts and opinions relating to the industry, and a list of member companies.

Prize-winning Essays

HISTORICAL STUDIES

TWO awards of the Maccabaean prize and medal have been made by the Society of Apothecaries. The prize-



A PHARMA-CEUTICAL BYGONE

Two pharmaceutical scoops of very lightweight wood and a horn spoon in the Alton, Hants, museum.

winners are Mr. T. A. Hyde, for an essay on "Some Aspects of Leeuwenhoek's Influence on the Development of Scientific Medicine" and Mr. C. S. Stander whose essay was entitled "A Note on the Organisation and Growth of an Early Manufacturing Chemist: being a study of Allen & Hanburys, 1775-1840."

Pesticides

COMMENTS SOUGHT ON DRAFT NAMES

COMMENTS on the following suggested names for pesticides are sought by the British Standards Institution. They should be addressed to the secretary (Mr. D. G. Berry) to arrive before August 6.

PROPOSED COMMON NAME	CHEMICAL NAME
dimethoate- ethyl	S-(N-ethylcarbamoylmethyl) dimethyl phosphorothiolo- thionate S-(N-ethylcarbamoylmethyl) OO-dimethyl phosphorodithi-
picloram	oate 4-amino-3,5,6-trichloropico- linic acid

Dangerous Drugs Act

AN AUTHORITY WITHDRAWN

AUTHORISATION to be in possession of or to supply or prescribe Dangerous Drugs has been withdrawn from Ahmed Abdul Hakeem, 14 Chesterfield Road, Ainsdale, Southport, Lancs.

Chemists' Retail Sales

BOARD OF TRADE STATISTICS

FIGURES recently issued by the Board of Trade for March reveal the following changes in the sales of chemists' goods by comparison with:—
FEBRUARY 1964 MARCH 1963

	%	%
Independent retailers	+3-1	same
Multiple retailers	same	+6.5
Co-operative Societies	+2.1	+4.3
CTI C	4 . 11	c

The figures do not allow for receipts under the National Health Service.

IRISH NEWS

THE NORTH

Ulster Chemists

JUNE MEETING OF COMMITTEE

THE executive of the Ulster Chemists' Association at its meeting in Belfast on June 2 approved a draft letter for the president to send to members about pharmacy's public image. The letter is the outcome of a resolution passed at a recent joint meeting of delegates of the Association and of the Irish Drug Association. The text was approved on the motion of Mr. J. Well-wood, seconded by Mr. T. I. O'Rourke. A possible five-day week for pharmacies, as recommended at the recent conference meeting (see C. & D., June 6, p. 579) for general trade discussion, was fully considered, and it was agreed to send out a questionnaire seeking the opinion of every member upon the

subject and on the question of two additional bank holidays. A further letter was approved urging members of the Association to encourage every member of their staff to join the Associates' Section. The letter is being sent out to coincide with the Section's proposed recruitment drive. The secretary was instructed to have the new Association's price list printed with all possible speed. A member's complaint that clubs were being organised by his neighbouring chemists received attention. It was agreed that the practice should be discouraged as not presenting a good image of pharmacy. A report that a non-chemist trader was offering therapeutic substances, etc., to farmers was discussed, and the secretary was in-structed further to investigate the com-plaint. The following were elected to membership:

M. B. Falls, Molesworth Street, Cookstown, co. Tyrone (successor to H. J. Laverty); J. Fegan, Owenvarragh Buildings, Andersonstown, Belfast, 11 (successor to T. McDaid, Ltd.); G. McKee, 16 Glenalina Road, Belfast, 12 (successor to J. J. Farrelly (branch)); B. Watson, 328 Upper Newtownards Road, Belfast, 4 (successor to Sandown Pharmacy, Ltd.).

It was agreed to hold the next meet-

It was agreed to hold the next meeting of the executive on September I.

The president (Mrs. A. S. G. Watson) was in the chair. Also present were Miss D. Hall, Messrs. H. S. Anderson, W. H. Boyd, W. E. Cooper, J. Knox, W. C. Magee, W. J. Moffett, M. C. Mooney, T. I. O'Rourke, J. Paul, A. Templeton and J. C. Wellwood. The secretary (Miss A. E. Strachan) and assistant secretary (Miss M. Smyth) were in attendance. Apologies for absence were received from Messrs. N. A. J. Anderson, H. Donaghey, H. W. Gamble, W. L. McDonnell, J. K. McGregor and J. F. Rankin.

THE REPUBLIC

Examination Results

SUCCESSFUL CANDIDATES

THE following have passed the Pharmaceutical Assistants' examination of maceutical Assistants' examination of the Pharmaceutical Society of Ireland: Dorothy M. Binns; Marie T. Buckley; Timothy G. Cronin; Mary C. Crowley; Mary Dalton; Mary Donovan; Mary M. Drennan; Mary Hanley; John J. McEvoy; Mary T. Noonan; Elizabeth A O'Gorman; Bridget E. O'Keeffe; Mary Reilly; Kathleen Whooley.

IRISH BREVITIES

THE NORTH

MR. M. E. O'Hare, M.P.S.N.I., Londonderry, will represent Ireland at the sixteenth chess Olympiad, Tel Aviv, Israel, in October. Mr. O'Hare is reigning Ulster champion.

THE REPUBLIC

PHARMACY Week, which is being arranged this year by the Irish Pharmaceutical Association, is being held in October. Mr. D. W. P. Boyd has been appointed organising secretary.

THE Irish Pharmaceutical Association has agreed to admit members of the teaching and academic staff of the College of Pharmacy and Mr. V. Harte and Mr. M. J. Cahill have been accepted as delegates.

NEWS IN BRIEF

THE retail price index for April was 106.1, against 105.2 in March (January 1962 = 100).

THE Board of Trade is considering an application for the removal of the import duty on shelled almonds.

THE 1964 Pharmacy Week in Canada is being held October 4-10. During the Week pharmacists will be co-operating with the Canadian Diabetic Association to urge the public to undergo tests for the detection of diabetes.

"WHY House Journals?" is the title of an exhibition being held by the British Association of Industrial Editors at the National Book League galleries, 7 Albemarle Street, London, W.1, June 23 to July 3 (except Sunday).

THE report for 1963 of the Analytical Methods Committee, published by the Society for Analytical Chemistry, 14 Belgrave Square, London, S.W.1, records progress on assays for capsicum, anthraquinone drugs, pyrethrum and thyroid.

COPIES of the rules and entry forms for the sixth "Junior Photographers of the Year" competition, organised for members of school camera clubs, are available from the Photographic Information Council, Kingsway House, 103 Kingsway, London, W.C.2.

THE Society of Cosmetic Chemists of Great Britain, has elected the following officers for 1964-65: President, A. Herzka; Vice-president, R. Clark; Treasurer, R. E. Spate; Honorary secretary, D. E. Butterfield. The general secretary is now Mrs. D. Mott, 18 Warner Close, Harlington, Middlesex.

THE following have been elected officers of the Industrial Pest Control Association, Cecil Chambers, 86 Strand, London, W.C.2, for the year 1964-65: Treasurer, R. E. Spate; Honorary Sec-Ltd.; Vice-president, D. Boocock, S.D.C. Pesticides, Ltd.; Treasurer, E. L. Williams, Shell Chemical Co., Ltd.; Secretary, W. A. Williams.

A PAPER on "Provincial Hospital Pharmacy in Eighteenth Century England' by Mr. W. H. Boorman (group pharmacist, Royal Hampshire County Hospital, Winchester), has been accepted by the Union mondiale des Sociétés d'Histoire pharmaceutique, for presentation during the general assembly of the International Pharmaceutical Federation at Amsterdam in September.

LONDON Executive Council is supporting an application to Poplar borough council by one of the two chemists on the Isle of Dogs for shop premises in which to open a second pharmacy. The Council has decided that the rising population in the Island warrants a third pharmacy which, they say, should be situated in the North-eastern

HYPODERMIC syringes — spirit-proof cases; polythene gloves; and polythene occlusive dressings have been added to the list of appliances in the third schedule of the 1955 National Health Service (General Medical and Pharmaceutical Services) (Scotland) Regulations, 1964. All are subject to Drug Tariff (Scotland) specification. Battiste, gutta percha and oiled cambric have been

deleted from the list of prescribable protectives.

Courses and Conferences

A ONE-DAY conference on retail staff management arranged by the Industrial Welfare Society 48 Bryanston Square, London, W.1, is being held at the Connaught Rooms, London, W.C.2, on June 16.

A THIRD symposium on chromatography (fee 300 Belgian francs) is being held in Brussels on September 14 and 15. Registration forms are obtainable from the secretary, Belgian Society of Pharmaceutical Sciences, 11 rue Archimède, Brussels, 4, Belgium.

THE Institution of Chemical Engineers is holding a meeting in the department of chemical engineering, University of Birmingham, on July 17, at which papers dealing with the scaling-up of microbiological process are being informally presented. Fee for a non-member is 25s. Applications should be made to Dr. N. Blakeborough at the University by June 30.

SPORT

Golf

SOUTH LONDON AND SURREY PHARMACISTS'
GOLFING SOCIETY, A Stableford competition at
Langley Park golf club, Beckenham, Kent, May
27. RESULTS: Widocks Memorial trophy, 1,
S. G. Mote, Leatherhead, 38 points; 2, W. J.
Baldock, Croham Hurst, 36 points; 3, G. Howell,
Banstead Downs, 36 points, 18 and over handicap prize (Bobby Locke trophy), 1, A. F.
Powrie, Barnhurst, 30 points. Scratch to 17 handicap prize, 1, J. Widocks, Croham Hurst, 35
points. Best score on first nune holes, R. Hedges,
Langley Park, D. Jobling. Best score on last
nine holes, A. F. Reary, Croham Hurst, Visitors'
prizes, 1, D. Hedges, Langley Park, 40 points;
2, S. Hook, Banstead Downs, 37 points.

ULSTER CHEMISTS' GOLFING ASSOCIATION. The McMullan Cup match was held at Bangor golf club on June 3. After tea, which was presided over by the captain (Mr. H. Mahood). Major F. McMullan distributed the prizes. A vote of thanks to Major McMullan was proposed by Mr. J. Duncan and to the Bangor golf club by Mr. J. N. Patterson, Mr. G. Balmer replied for the club. Results: McMullan Cup, K. J. Warnock, 41 points; V. Heatherington, 40 points; J. McFarland, 39 points; McCutcheon trophy, T. Caven, 41 points; V. Elliott, 41 points; D. Coffey, 41 points.

LOCAL OFFICERS

PHARMACISTS' ASSOCIATION

Western (London).—President, S. Z. Robinson; Vice-president, Mrs. A. J. P. Turner; Treasurer, C. Evans; Assistant Secretary, G. R. Battye; Social Secretary, S. J. Turner; Secretary, A. A. Kennett, 143 New Bond Street, London, W.1. (Telephone: Mayfair 4471.)

West Ham.—President, B. L. Beard; Vicepresidents, O. C. Wombwell and A. W. Harris; Social Secretary and Treasurer, D. C. Evans; Bulletin editor and Press officer, A. W. Newberry; Assistant Secretary, L. J. Rosenberg; Secretary, R. W. J. Knights, 194 Cambridge Road, Seven Kings, Ilford, Essex.

PHARMACEUTICAL SOCIETY

East Metropolitan Branch.—Chairman, B. L. Beard; Vice-chairmen, O. C. Wombwell and A. W. Harris; Treasurer, Mrs. J. E. Mann; Bulletin editor and Press officer, A. W. Newberry; Social secretary, D. C. Evans; Assistant secretary, I. J. Rosenberg; Secretary, R. W. J. Knights, 194 Cambridge Road, Seven Kings, Ilford, Essex.

Leicester and Leicestershire.—Chairman, A. W. Dyer; Vice-chairman, C. E. Mills; Treasurer, Miss M. H. Perkins; Social secretary, E. H. Butler; Secretary, L. A. Wood, 46 Clarendon Park Road, Leicester.

TOPICAL REFLECTIONS

By Xrayser

Images

In proposing the toast to the Pharmaceutical Society at the Hounslow Branch dinner recently (p. 565) Mr. J. A. Freeman, B.Pharm., F.P.S., said that it was necessary for the Society to create a new image of the pharmacist in the public eye. It should let the public see that, despite the ordinary man's wider knowledge today, gained (often wrongly) from various sources, the pharmacist was second only to the doctor in guidance on public health matters. Though I am not uncritical of the Council on occasion, I wonder if it is fair to expect them to do much in the direction suggested by the speaker, or indeed if they can do anything. They may strive to impress Parliament and people with their interest in questions of public safety and professional responsibility, and they have attracted wellmerited praise in recent times both in Parliament and Press. In that regard, pharmacy has risen in public esteem, but that is pharmacy as a profession regarded in the abstract. What the speaker is asking is rather different. It is the creation of a new image of the pharmacist in the public eye, and we must ask ourselves how far any Council may be expected to succeed in a task which can, in the end, be accomplished only by the pharmacist himself. The public will ultimately judge the profession not by any new image created at Bloomsbury Square (or elsewhere, if there is too little time left) but by the bearing of the pharmacist himself in direct contact with his own public in the pharmacy. It may be that the Council can accomplish a great deal by education, by example, by inducement or by coercion. But the fact remains that the best ambassador for the pharmacist is himself, and in his hands lies the making or marring of any impression in the public mind on the pharmacists' status. The first important influence is the appearance of the premises, and it has to be admitted that there are some that would defy the efforts of the most persuasive public relations expert in the world to present favourably. If Mr. Freeman means that the Council should get down to the fundamentals of raising individual standards by persuasion, I am all for it. But the new image must be a reality recognisable in every pharmacy in the country—in other words, not just an image.

Physical fitness

It is asserted that once one has learned to swim, one never forgets how. The same may be said of the art of pill making. But another factor enters into both of those accomplishments, and that is physical fitness. The necessary pitch can be attained only by a rigorous course of training, involving general principles of diet and exercise, for any overweight, maldistributed, can prove a handicap in both of the arts under discussion. A slim figure is a distinct asset in pill-making, for one must be able to be literally on top of the job. But perhaps the crux of the matter is a strong and flexible wrist and, in the absence, in these degenerate days, of regular practice in massing, it becomes necessary to take up pastimes that will ensure the preservation of the desired qualities—for it is perhaps expecting too much of the pharmacist that he should make pills merely as a recreation. The bowling of leg-breaks is useful, though beyond the age of seventy that presents its own problems. Perhaps archery is the best means of keeping the pill wrist in good trim. I write feelingly, for I was called upon recently to produce 200 pills, and I am dictating this paragraph instead of writing it.

We have it

The advice of the expert is always worth listening to, and when Mr. T. Slater (sales promotion manager, Beecham Toiletry Division) discusses stock ranges for the pharmacist (p. 565) he affords us all an opportunity of taking a new look at our own practice. Mr. Slater notices that, despite many new lines being offered to chemists, there were few of the old lines they were prepared to drop. Part of a chemist's service, he went on, was to stock articles in ones or twos, but that service had to be kept to a minimum and related to demand. That has not, in general, been pharmacy's way. We have tried to satisfy the slightest demand, knowing well that the goods which sold rapidly were in all the big stores. It has been thought that keeping everything created goodwill, but goodwill may be dearly bought.

Statutory Committee

ONE NAME REMOVED FROM REGISTER; A MEMBER REPRIMANDED

FIVE cases came before the Statutory Committee of the Pharmaceutical Society on June 4 and 5. One case was held over. One member's name was instructed to be removed from the register. Another member was reprimanded. In the remaining cases the decision was deferred for a year.

The case held over was adjourned because the pharmacist was neither present nor represented.

Reprimand

In the next case a pharmacist was present to speak to a complaint that he had unlawfully sold hydrocortisone (in a proprietary ointment) to a purchaser without a prescription. pharmacist was not represented. Evidence was given to the Committee that one of the Society's inspectors, with an agent, had made a special visit to the member's pharmacy. Acting on instructions the agent had gone into the pharmacy and asked for cortisone ointment. The pharmacist replied "On prescription, is it? Is it for yourself?"
The agent's reply was "No, I have been asked get it." The chairman said, after hearing the evidence and crossexamination, that the Committee were satisfied that the misconduct complained of in the notice of inquiry had been proved. They did not think it proper or necessary to remove the pharmacist's name from the register, but did think he should be reprimanded.

In the next case the Committee deferred for one year its decision on a pharmacist who had been found under the influence of drugs, or a drug, on the premises of his employers, for whom he was acting as manager. The member was present but was not represented. A police-sergeant gave evidence of having visited the pharmacy after having received information that its front door was open and that there were lights in the rear part of the premises. He arrived at about 12.30 a.m., assumed that there had been a break-in by thieves, and went into the pharmacy, where he saw the pharmacist in the dispensary. The premises were in a state of disorder; the safe was open and drugs were strewn about the premises. The sergeant revisited the premises at 2.30 a.m. and came to the conclusion that the pharmacist was under the influence of drink. An ambulance was summoned and the pharmacist taken to hospital, the officer taking charge of the keys. The chairman said the Committee were unanimous in finding the complaint made out. For a manager to be under the influence of a drug in his pharmacy rendered him liable to have his name removed from the register. The Committee had decided to defer their decision for a year. They imposed the conditions that the pharmacist must not take employment in a retail pharmacy, must keep in touch with the Committee and notify any change of employment, and at the end of twelve months must produce two refe ences.

In the next case the member appearing, Mr. Harold Godfrey, 137 Wentworth Road, London, N.W.11, had, at Harrow magistrates' court on January 7, pleaded guilty to and been convicted of obtaining a number of drugs by false pretences and with intent to defraud. He was present at the hearing and represented by counsel. At the time the offences were committed he had been employed as a medical representative by a pharmaceutical firm. His duties included calling on doctors and other persons or bodies concerned with the purchase of drugs. Police inquiries proved that Mr. Godfrey had presented to a number of chemists, mainly in North London, prescription forms including about thirty EC10 forms plus other EC forms issued by out-patient departments of hospitals. It had not been proved to the magistrates how he had obtained possession of the forms. Having paid the 2s. fee, he had received the drugs. The court had been satisfied that the prescription forms, or at least the signature on them, were not forgeries. In November 1963 he had presented two National Health prescription forms, both bearing the signatures of a doctor, to a chemist in Harrow Weald. The chemist had asked him to return the following day. Police officers were then in the pharmacy and the member was arrested. In a statement to the police, Mr. Godfrey said he had disposed of the drugs to a chemist or chemists. The Pharmaceutical Society's solicitor said that when Mr. Godfrey had appeared before the Harrow magistrates on January 7 he had pleaded guilty to the seven offences and asked for fifty others to be taken into consideration. He had been sent to prison for six months on each of the seven charges, the sentences to run concurrently. The total sum involved was estimated at £496 7s. 1d.

Testimonials

On Mr. Godfrey's behalf testimonials were put in to the Committee by a vicar and a solicitor and others. The vicar wrote that from what he knew of Godfrey and the readiness with which he answered questions put to him, he felt he had learnt his lesson, and that his lapse from professional standards might fairly be described as a temporary aberration. The solicitor wrote that he had known Mr. Godfrey and his family intimately for fifteen years and had also acted as his solicitor. Until June 1962 Mr. Godfrey had had a pharmacy at 108 Horseferry Road, Westminster, London, S.W.1. His business was originally successful, but commenced to decline in 1961, and by the beginning of 1962 was running at a loss. Mr. Godfrey had been forced to sell and at a disappointing price, a large part of it on security of mortgage to be repaid by instalments. Mr. Godfrey had been left in rather desperate financial circumstances.

The purchasers of the Horseferry Road premises had since discharged the balance of that mortgage, and Mr.

Godfrey was now in a better financial position, and need no longer fear the loss of his home. Mr. Godfrey had managed to satisfy practically all of his creditors and was now solvent. The feeling of desperation which had caused him to commit the offences had now been removed. He had never previously been in any serious trouble. Mr. Godfrey was a man of sober habits. The solicitor felt confident that, if the Committee allowed the member to remain on the register the trust placed in him would be fully justified. The chairman said the Committee were concerned with the protection, honour and reputation of the profession. The pharmacist before them had done something disgraceful for a professional man to do, and was saying, in effect, "Despite that, let me remain a member of the profession. I do not want to tell you anything about the other members of the profession who have helped me dispose of illegally obtained goods. My defence is that I was able to peddle these goods out to other members of the profession who had every sort of professional duty for not touching them, but I do not want to get them into trouble. I want to cover up their professional misdeeds." Counsel for Mr. Godfrey said that his client's mitigation in the circumstances was that he desired to accept sole responsibility for the matter. The pharmacist was now employed by a responsible company of manufacturing chemists and had given every satisfaction as representative, being promoted to what was obviously responsible employment. If it became known by his subordinates that the Committee had removed his name from the register, he would be obliged to resign his job.

The Committee retired. After its resumption the chairman said: Mr. Godfrey, you come before this Committee in respect of seven offences of obtaining goods by false pretences. In respect of those offences the magistrates sentenced you to six months' imprisonment. The offences were of a nature to disqualify you from remaining on the register. The Committee are not satisfied that you have been truthful or candid with them. They take a most serious view of dishonesty committed by a professional man, and in all the circumstances of the case think it proper to order that your name be removed from the register of pharmaceutical chemists.

Pharmacist Responsible for Sales

The last case concerned a pharmacist who had been convicted of selling Preludin and Equanil tablets otherwise than on and in accordance with a prescription. The pharmacist, who was present, was represented by counsel. Evidence was presented by the Society's solicitor that one of the Society's inspectors had received information that a male patient receiving psychiatric treatment had been obtaining Fourth-Schedule drugs without medical prescriptions. He called at the pharmacy with

the secretary of the Society's Scottish Department. With them was the patient who was receiving psychiatric treat-The inspector gave the patient ment. certain instructions and a £1 note, and the patient went into the pharmacy. The inspector and Dr. McMorran took up a position from which they could see exactly (as Scottish law required) what was going on inside the pharmacy. They saw the patient go to the counter and speak to an assistant. The patient then walked towards the door, and Dr. McMorran and the inspector went into the shop. The patient handed to the inspector two small round boxes. They were unlabelled but bearing the initials of the patient and the date. The inspector and Dr. McMorran looked inside the containers and recognised that the first contained some Equanil tablets and the other held some Preludin tablets. The inspector went up to the counter, spoke to the assistant and asked to see the pharmacist, who came from a room behind the dispensary. They told him that they had caused the test purchases to be made. The pharmacist denied any

knowledge of the sale. The chairman said that the Committee were gravely concerned with the circumstances of the case. Parliament had chosen to control the sale of the drugs in ques-tion, and every time a pharmacist made a sale without the required safeguards it was a disservice to the public and a blow to the safeguards the legislature thought proper to impose. The Committee had been given no evidence to suggest that any proper check had been kept by the pharmacist on the sale and supply of such drugs to ensure that the necessary prescriptions were available. It was the business of a pharmacist to know that a sale of a scheduled drug had taken place and the excuse could not be accepted, except where the pharmacist been genuinely deccived, that the sale had taken place without his know-ledge. In all the circumstances, the Committee were at a loss to know what to do and proposed to defer decision on that matter for a year. At the end of that time they would require two references, one at least from a fellow pharmacist.

TRENDS IN N.H.S. PRESCRIBING

Ministry of Health publication offers some statistics

AN analysis of National Health Service prescriptions for the years 1961 and 1962 has been published by the Ministry of Health (Reports on Public Health and Medical Subjects No. 110: Recent N.H.S. Prescribing Trends, H.M. Stationery Office, price 5s. net). Based on monthly samples of prescriptions, it covers both England and Wales and Scotland giving statistics of prescriptions and their cost for each quarter of the two years under review. Also given are the results of an investigation into the relationships between a doctor's prescribing costs in 1958-59 and such "practice characteristics" as his age and the number of patients on his list. Data for the analysis were obtained from samples comprising about one in every 200 of all prescriptions dispensed in England and Wales during the two years, and about one in every 100 in Scotland. Information was also collected about 10,000 drugs.

Special Circumstances

The influenza epidemic in the first quarter of 1961, and the higher prescription charge introduced in March 1961, distorted comparison with the first quarter of 1962. Total overall numbers of prescriptions for each of the last three quarters of 1962 were about the same as those for the corresponding quarters of 1961, but the corresponding totals of net ingredient cost showed differences of the order of £1 million in each quarter. In most therapeutic groups the average ingredient cost per prescription had risen and there had also been an increase in the proportionate use of the more expensive of the therapeutic groups. The first of those factors, brought about partly by a trend towards higher quantities per prescription, was to some extent offset by reduced prices for established drugs. Both factors were, however, affected by the increased popularity of newer and more expensive drugs.

The larger percentage increases found during 1962 were for barbiturates, antidepressives, tetracyclines and corticosteroids. The larger percentage decreases were for non-barbiturate hypnotics, expectorants and cough suppressants, topical sedatives, antipruritics and individually formulated preparations

There was a sharp decline in the prescribing during 1962 of drugs introduced before 1956, the fall in England and Wales being 300 and the drop in the corresponding number of prescriptions being more than 5 millions. Prescriptions for drugs introduced between 1956 and 1958 tended to decline in numbers. "The sharper decline in the number of prescriptions for drugs introduced in 1958," it is stated, "can most likely be partly explained by the withdrawal at the end of 1961 of drugs containing thalidomide." There were striking increases in the prescribing during 1962 of drugs introduced in 1960 or later. This latter increased popularity of the newer drugs (and a corresponding popularity decline of the older drugs) was a major factor in the rising average total net ingredient cost of drugs. The average cost per prescription for the newer proprietary drugs (138d. for those introduced in 1962) was about twice that for drugs introduced before 1956 (69d.).

Regional Variations

A study of regional prescribing differences in England and Wales showed that for each of the three prescribing averages—cost per person, prescription frequency (number of prescriptions per person) and cost per prescription, the regional order had been fairly consistent over a four-year period. It was also found that regions with high overall costs per prescription tended to have high costs per prescription for many therapeutic groups. That implied differences between regions in the kinds

and/or quantities of drugs ordered per prescription for similar therapeutic treatments. When sample data from two high cost regions (Wales and the Northern region) and two low cost regions (East and West Ridings and Midland region) were further analysed they showed higher percentages in the two high cost regions of prescriptions for drugs in the more expensive thera-peutic sub-groups and of "proprietary" prescriptions for the major therapeutic sub-groups. Quantities ordered per prescription were found to be low in the Midland region but no significant trend was established for the other three. "It can be concluded," states the report, "that a major factor associated with different therapeutic costs per prescription for the high and low cost regions is to be found in the different kinds of drugs prescribed for similar therapeutic treatments." However, it is emphasised that those conclusions cannot be further investigated in the absence of data about the diagnosis which gave rise to the regional difference in prescribing. Since the differences hold good over seemingly unrelated therapcutic groups and sub-groups "there is some support for the inference that the differences are partly affected by factors other than morbidity.

Another chapter reviews variations in prescribing averages for the doctors grouped according to age. From an analysis of information obtained from prescriptions issued by 3,150 doctors in the areas of twenty-nine Executive Councils the conclusions were drawn that both prescription frequency and cost per prescription were lower for older than for younger doctors; that prescription frequency was lower for doctors with larger lists, higher for women doctors; and that no significant variation in prescribing characteristics could be established in relation to self-dispensing, period of practice in the area, or medical school of doctor.

EXPANSION PROJECTS

DU Pont Co., U.S.A., have started a multi-million dollar plant for making medical and industrial x-ray films, using the company's polyester as base. Three new medical films with fast and improved emulsions are to be added to the

THE American Cyanamid organisation is joining with Iranian interests to produce antibiotics and other drugs in Iran. The unit, to be known as Cyanamid-K.B.C., will be evenly owned by American Cyanamid and Khosrowshahi Bros., makers of agricultural, household, and cosmetic products. Total investment will exceed \$1 million.

RIKER LABORATORIES, Morley Street, Loughborough, Leics, having acquired the premises of the Dishley Engineering Co. on an aerodrome site near the town, gain 52,000 sq. ft. of floor space in buildings standing on 4½ acres of freehold ground. They are taking advice from consultants on how best to develop the site to meet increasing demand for the company's pharmaceutical specialities so that manufacturing activities are co-ordinated with the company's existing facilities.

IN PARLIAMENT

DURING the second reading of the Trading Stamps Bill in the House of Lords on June 8, BARONESS ELLIOT OF HARWOOD (chairman of the Consumer Council) intimated that she would propose amendments during the Bill's later stages to strengthen the protection of stamp collectors. The Council, she said, would like stamp companies to register with the Board of Trade and make a deposit or lodge a bond of indemnity approved by the Board, so that in the event of a stamp company defaulting that bond could be used to pay the persons who had saved stamps. LORD DRUMALBYN (Minister of State, Board of Trade) said the Government's attitude towards the stamps was one of "benevolent neutrality. Its only concern was that any legisla-tion passed should be both appropriate and workable. Any such late change, however, would involve the risk that the Bill would not reach the Statute The Bill was given an un-Book opposed second reading.

N.H.S. Reforms

MR. L. PAVITT gave notice on June 4 of his intention to move, on June 18, a resolution calling attention to "the need for radical reforms in the National Health Service."

Chloramphenicol Distribution

Dr. A. THOMPSON asked the Secretary of State for Scotland on June 3 whether he was satisfied that supplies of chloramphenicol were immediately available for emergencies in all areas of Scotland, particularly on the islands. MR. M. NOBLE, in a written answer, that adequate supplies were available and that delivery was normally within twenty-four hours. supplies were required more urgently, air transport would be arranged. Most prescriptions were for patients in hospital, but chemists should have no difficulty in filling prescriptions issued for individual patients by general practitioners. In a further reply on June 5 Mr. Noble said that adequate supplies were immediately available for T.A.B. inoculation of hospital doctors and nursing staffs in areas adjacent to Aberdeen.

LEGAL REPORTS

A Receiver of Stolen Morphine

AFTER pleading guilty at Edinburgh sheriff court on June 5, Douglas Jamieson Brown, whose address was given as that of an Edinburgh solicitor, was sent to prison for one year for receiving 2 lb. of stolen morphine, possessing it without authority, and offering it for sale. The procurator-fiscal gave a reminder that the thief had taken the morphine from an Edinburgh chemical works, and sheriff W. Ross McLean recalled having sentenced the thief to twelve months' imprisonment.

The fiscal said the matter came to the knowledge of the police in March, when they knew a man was trying to find a market for morphine. Arrangements were made that a prospective purchaser should be in a car in a city car park. Police officers were in the car and another was concealed at its

rear. Brown got into the car and produced a bag. A policeman examined a sample and asked the price, Brown replying that the arrangement had been for £800. Asked by the sheriff what form the morphine took, Mr. MacLeod said that perhaps 80 per cent. was anhydrous. To be used medically or improperly it would require further treatment and preparation. He had been told that the 2 lb. could produce 4,000 "shots." The value of the stolen quantity could be more than twice the price mentioned to the police. On Brown's behalf it was stated he was 'an innocent in the world of crime.' After the theft by a man whom he had befriended, the morphine lay in a drawer in Brown's house for weeks, and the first person he tried to sell it to was a policeman. Brown had been attending a mental hospital as an outpatient.

COMPANY NEWS

Previous year's figures in parentheses

BORAX CONSOLIDATED, LTD.
—Mr. R. J. L. Altham has been elected to the board.

DISTA PRODUCTS, LTD. — Dr. W. H. Lyle has been appointed as medical director.

BOOTS PURE DRUG CO., LTD.—Mr. M. J. Verey (a managing director, J. Henry Schroder Wagg & Co., Ltd.) has been appointed a director.

MR. A. HANSEN (previously sales director, Sales Affiliates, Ltd.), has been appointed group marketing director of both Sales Affiliates, Ltd., and the associated company, Biometica, Ltd.

ABBOTT LABORATORIES, LTD.—Mr. H. David (managing director) has been appointed deputy chairman of the board. The Hon. A. Hood has been appointed a director.

CRODA ORGANISATION, LTD.—Dr. E. Bohringer and Messrs. J. M. Cannon, G. R. Hembrough and N. R. Kirkby are to hold the additional office of associate director.

F. W. BERK & CO., LTD.—With effect from July 1, Mr. F. A. Rivett has been appointed managing director. Mr. Curtis F. Berk will relinquish the appointment of managing director and become deputy chairman.

UNITED GLASS, LTD.—Following the purchase by United Glass, Ltd., of the issued share capital of Johnson, Radley & Sons, Ltd., Mr. J. W. Johnson, while continuing as managing director of Johnson, Radley & Sons, Ltd., has been appointed to the board of United Glass, Ltd.

CYANAMID INTERNATIONAL.—Dr. F. M. Haag has been appointed European technical director, agriculturals. Based in Zurich, he will coordinate all technical activities of both animal and plant industry specialists assigned by the company to its European region, which includes Great Britain.

BORAX HOLDINGS, LTD.—The directors announce that their American operating company (United States Borax and Chemical Corporation) expects to start construction work shortly on a potash property controlled

jointly by it and Homestake Mining Co., near Saskatoon, Canada. The two companies are discussing with Swift & Co., the possibility of that company's joining in.

KODAK, LTD.—Consolidated trading profits for the year ended November 3, 1963, were £6,440,177 (£5,494,070) after depreciation of £1,479,393 (£1,343,199). Net profit, after tax, was £3,011,715, an increase of £557,686. The dividend is held at 10 per cent., free of tax.

BEECHAM GROUP, LTD. — Mr. C. D. W. Stafford, M.P.S., who has been chairman, Beecham pharmaceutical division, for a number of years, has been appointed executive vice-chairman, Beecham Group, Ltd. Mr. G. J. Wilkins, B.Sc. (managing director, Beecham Research Laboratories), has been appointed to the Board of Beecham Group, Ltd., and has also been appointed chairman, Beecham pharmaceutical division, in succession to Mr. Stafford.

SMITH & NEPHEW ASSOCIATED COMPANIES, LTD.—Group sales for the first twelve weeks of 1964 showed a 9 per cent. increase over the corresponding period of 1963. Profits for the period (about £698,000), before deducting tax, were about 1 per cent. above the comparable figure for 1964. Indications are that this rate of increase will improve in the second quarter. A second interim report, covering the twenty-four weeks to June 20, is being issued about September 18.

PULLIN GROUP. — The Rank Organisation are offering fourteen of their "A"shares for every 100 shares held in the Pullin group. Ordinary shareholders of Pullins would receive a 7 per cent, interim dividend but would not be eligible for the final dividend of Rank for the year ending June 27. Holders of Pullin redeemable Preference shares are being offered a one-for-one exchange into second Preference shares in Rank. Holders of convertible loan stock are also to be offered conversion rights into Rank shares.

JOHNSONS OF HENDON (HOLD-INGS), LTD.—Group profits for the year ended December 31, 1963, were £185,896 (£195,227), exceeding the £180,000 forecast in January when the shares were introduced to the Stock Exchange. Profits after tax were £88,203 (£103,949). Sales during the year reached a record value of over £3,600,000. Surplus of assets over liabilities is £564,166. The chairman (Mr. E. Stanley Houghton) declares that the recent acquisition for £129,000 of the issued share capital of Pictograph, Ltd., will provide a worth-while addition to group turnover and profits. Improved results are expected from Johnson Processing Laboratories, Ltd.

POTTER & CLARKE, LTD.—More details of the discussions which the company have been having and which the chairman referred to at the annual meeting (C. & D., June 6, p. 566), have been revealed. The company have made an agreement with Mr. Charles E. Marsh under which he will subscribe for 300,000 Ordinary shares of one-shilling at par, while an option has

been granted to him on a further 366,668 shares at a price of 1s. $4\frac{1}{2}d$. a share (10 per cent. above the middle market quotation on May 6, when negotiations were commenced). Mr. Marsh is a director of Fram Group, Ltd. The agreement is conditional on the Stock Exchange granting quotation for the 300,000 shares, and on obtaining the approval of shareholders.

CHAS. PFIZER & CO. INC.—The annual report for 1963 shows that the company's world-wide sales rose for the fourteenth consecutive year, to a record of £148 millions, an increase of over 7 per cent. on the 1962 figure. Net earnings were higher for the eleventh year in succession at £14.4 millions, an increase of more than 9 per cent, over 1962. Vaccines, antibioties, medicinals, and packaged vitamins contributed to the sales gains, noteworthy developments being made in sales of Sabin poliomyelitis vaccine, Terramycin, Diabinese, synthetic penicillins and Rondomycin. At the end of the year, Coty, Inc., was merged into the organisation and the assets and business of Coty International Corporation were acquired. Sales of Coty products are not included in 1963 sales figures. Highlights of 1963 sales figures. Highlights of Pfizer's eonsumer product activities included a sales gain of over 25 per eent. outside the United States for Limmits dietary biscuits. Sales of continued a products continued to agricultural products continued to grow and as well as in the United States, animal vaccines are now manufactured in England, Mexico, Chile, Argentina and Brazil. At Sandwich, Kent, expansion of pharmaceutical At Sandwich, production facilities is on the drawing board. Research (£5.2 millions), development and related scientific work totalled over £6.8 millions with substantially more than half being spent on medical research. The report mentions that work at Sandwich has included studies on a German measles vaccine. Promising results from clinical tests with a combined killed-measles and Salk polio vaccine, which could mean greater convenience and economies, are also noted. Several Govern-ment-financed programmes of virus and cancer research are being carried

BUSINESS CHANGES

WALLACE, CAMERON & CO., LTD., have transferred their offices to Ultra House. Drakemire Drive, Castlemilk Industrial Estate, Glasgow, S.5 (telephone: Croftfoot 6881).

MR. H. STURGESS MILLS, M.P.S., M.R.S.H., 54 Wellington Street, Bradford, Manchester, 11, has opened a branch pharmacy at 10 The Centre, Higher Folds, Leigh, Lancs.

THE Green Pharmaceutical group of companies have opened a pharmacy at 9 The Square, Alvechurch, Birmingham. It will trade under the name Alvechurch Pharmacy, Ltd.

R. H. SWINN, LTD., are closing their pharmacy at 34 Upper Duke Street, Hulme, Manchester, 15, on June 13, and opening a new pharmacy at 88 Earlsway, Macclesfield, Ches, on June 15

MR. G. N. DOWNING, M.P.S., has acquired from representatives of the late Mr. B. B. Russell, M.P.S., the pharmacy at 140 Stanley Park Road, Carshalton, Surrey. Mr. Downing's previous pharmacy at 118 Marldon Road, Paignton, Devon, is now under the ownership of Mr. R. G. Medland, M.P.S.

Appointments

DISTA PRODUCTS, LTD., Fleming Road, Speke, Liverpool, 24, have appointed the following new representatives (territories in parentheses) as a result of expansion and staff promotions:—Messrs. E. A. Bardsley-Smith (West Surrey); D. Hasan (North West London); M. G. Everett, M.P.S. (Bristol and Somerset); N. Robinson (South Birmingham and Warwickshire); W. Ryder, M.P.S. (Merseyside); A. A. Gallagher (North Lancashire, Westmorland and Cumberland); L. W. Samuels (North Wales); G. T. Griffin (Derbyshire and The Potteries); H. E. Roberts (North Leeds); M. H. Espley, M.P.S. (South Leeds).

PERSONALITIES

MR. A. HERZKA, B.Sc., F.R.I.C., has been elected president of the Society of Cosmetic Chemists of Great Britain.

MR. DOUGLAS COLLINS, a director and the founder of Goya, Ltd., has been appointed a working director of Sutton & Sons, Ltd., Reading, Berks, Royal seed establishment.

MR. REGINALD DAY, M.P.S., Spilsby Road, Boston, Lincs (managing director, Grimble & Kent, Ltd., ehemists, 15 High Street, Boston), has been appointed a member of Boston group hospital management committee.

SIR HARRY JEPHCOTT, B.T. (honorary president of Glaxo Group, Ltd.), was granted the freedom of the borough of Port Fairy, Victoria, when he visited Australia recently. The ceremony was performed by the mayor of Port Fairy at a civic reception in the borough chambers. Port Fairy's association with Sir Harry dates back to



1920, when a milk drying plant was established in the borough, and today the major portion of its working population is employed at the Glaxo Group

factory, which includes a major antibiotic manufacturing unit. In the picture the mayor of Port Fairy (Councillor T. A. Crowe) is seen awarding the freedom scroll to Sir Harry.

DEATHS

CAHILL.—Unexpectedly, on June 2, Mr. Thomas Bernard Cahill, M.P.S.I., Main Street, Castlebar. Mr. Cahill qualified in 1927 and was the son of a prominent Castlebar pharmacist. For many years he had been manager of McLaughlins' pharmacy in Carndonagh. He is survived by his widow.

CAMPBELL.—Recently, Mr. Harry Sanderson Campbell, M.P.S., 57 Clarke Lane, Meltham, nr. Huddersfield, Yorks. Mr. Campbell qualified in 1932.

GLASS.—On May 29, Mr. James Grant Glass, M.P.S., Grant House, North Road, Leigh Woods, Bristol, aged eighty-eight. Mr. Glass qualified in 1899.

INQUESTS

Pharmacist's Death at His Pharmacy.—A verdict of accidental death was recorded by the Horsham, Sussex, district coroner on Mr. Maurice Inglis, who died in a fire at his pharmacy at East Preston on May 24. Evidence was given that Mr. Inglis returned to the shop at about midnight on May 23. At 3.30 a.m. the following morning the fire was seen by a neighbour, and when the fire brigade arrived Mr. Inglis was found lying on his back with an overturned electric fire across his ankles. Death was said to be due to asphyxia and severe burns.

Pharmacy Director's Suicide.—A verdict of suicide while the balance of the mind was temporarily disturbed was recorded at an inquest at Maidstone, Kent, recently on Mr. Norman Taylor, a director of Corfe & Son, Ltd., chemists, Gabriel's Hill, Maidstone. Mr. R. J. Waters, M.P.S., a fellow director, found Mr. Taylor dead in his office on Whit Monday. On his desk were a tumbler and two bottles containing nicotine and strychnine. Medical evidence was given that Mr. Taylor had been suffering from some degree of heart trouble, but the coroner said "Just why he took his life we shall never know."

Source of Strychnine Not Known.—Although medical evidence at an inquest on Mrs. Kathleen Tarry, wife of a Kettering farmer showed that she had died from strychnine poisoning, the East Northants coroner was told that no trace of strychnine could be found in the house or on the farm, apart from a small quantity contained in a cattle tonic. That could not have been taken by the deceased. Inquiries of chemists in the district had failed to show where Mrs. Tarry got the strychnine. She left no suicide note and was said to have been quite happy and unlikely to kill herself. The coroner recorded an open verdict.

N.H.S. STATISTICS

In England during January 18,497,783 prescriptions (12,654,029 forms) were dispensed at a total cost of £8,468,253. Average cost per prescription was 109.87d.





We present:





























System 1998

Rapid means quick. Rapid is a new system of loading the camera with film, a new way of photographing. It is the result of teamwork. Leading European manufacturers of cameras and films have cooperated in developing the Rapid system for the international photographic market. The day of its release, still a secret for the general public, is 1st July 1964. From 1st July 1964 Rapid cameras and Rapid films produced by well — known firms will be available, a wide range of cameras and a big selection of black and white and colour films.

The system itself is new, the Rapid cassette for quick and easy loading is also new.

Another new feature is the way the film threads itself. What has been retained is the standard 35 mm film which can be processed all over the world.

Those are the main points in brief. You will be hearing more about the Rapid system from the firms concerned as soon as their products are ready for the market. Further information will also appear in trade publications.

Another thing — the Rapid cameras and Rapid films will provide genuine additional business as they will not affect existing production programmes of the firms involved. This fact will be given due emphasis in the large-scale publicity campaign for the new system.

NEW PRODUCTS AND PACKS

PHARMACEUTICAL SPECIALITIES

Available as Syrup.—Carlton Laboratories (Southern), Ltd., 2 Norfolk Square, Brighton, Sussex, have introduced Feravol-G syrup containing ferrous gluconate, liquid glucose, and vitamin B₁. It is available in bottles of 4 oz. and 8 oz. and in 80-oz. dispensing/hospital pack.

Treatment for Haemorrhoids.—Lambert Chemical Company, Eastleigh, Hants, describe their new speciality Diminex as "the most advanced treatment of its kind for the relief of haemorrhoids." Diminex contains



Pistocaine, which is described as a new local anaesthetic that relieves pain within thirty seconds of application. The product is also understood to lubricate and shrink the affected areas. Allantoin is included to give rapid healing properties. Diminex is available as both suppositories and ointment.

New Packs.—Genatosan, Ltd., Loughborough, Leics, announce that Genacort 1 per cent. ointment and cream are now available in 200-gm. packs introduced for convenience in dispensing in view of changes in pricing policy by the Ministry of Health. A 20-oz. pack of Genisol is also now available to meet demands for a pack from which to dispense prescriptions for varying quantities. A "new look "2-oz. pack of Genisol becomes available shortly.

"Built-in Memory" Pack.—The British Drug Houses, Ltd., Graham Street, London, N.1, have introduced a new built-in memory" pack for Volidan, "the fastest growing oral contraceptive." Like Volidan itself, the pack is claimed unique in the field of oral contraception, being "uncomplicated, foolproof and designed specifically to meet the requirements indicated by family doctors." Incorporated in the pack is a reminder chart, which the patient sets to the day when her period began and is then able to read off when she has to take her first tablet. Throughout the course the chart tells the patient at a glance whether or not she has missed a daily dose. Price is unchanged. Supplies are available from wholesalers.

Oral Contraceptive.—Pharmethicals (London), Ltd., Victoria Way, Burgess Hill, Sussex, are introducing on June 15 a new oral contraceptive, Gynovlar 21, containing twenty-one tablets in the course instead of the twenty so far associated with oral contraception. The change is stated to allow a dosage

scheme tailored to the "ideal" 28-day rhythm. The patient takes one tablet daily for three weeks, misses a week, and then starts again, always on the same day as the first cycle, thus removing the risk of error in determining the start of each course from the menstrual pattern. Gynovlar 21 contains 3 mgm. norethisterone acetate and 0-05 mgm, ethinyl oestradiol in each tablet, and is supplied in an ingenious visual "dispenser," the Memo-pack.

Triamcinolone with Chlortetracy-cline.—Lederle Laboratories division of Cyanamid of Great Britain, Ltd., Bush House, Aldwych, London, W.C.2, are introducing on June 15 a new speciality Aureocort ointment, containing 0·1 per cent. of triamcinolone and 3 per cent. of chlortetracycline. The ointment is formulated for the treatment of dermatoses in which allergy and infection are believed to coexist (including contact and atopic dermatites, neurodermatitis and otitis externa). The ointment is contraindicated in tubercular, fungal or viral lesions of the skin; it is subject to the Therapeutic Substances Act. Packs are 5-gm. and 15-gm. tubes.

Series Made Comprehensive.—With Stabillin V-K ready-prepared suspensions, Boots Pure Drug Co., Ltd., Station Street, Nottingham, claim now to offer a comprehensive range of such preparations. The new suspensions are available in strengths of 62.5 mgm. and 125 mgm. of penicillin V (as potassium salt) respectively in each 5 mils. Packs are bottle of 60 mils. Both the new suspension "62.5" and the existing svrup "62.5" comply with the specification for mist. phenoxymethylpenicil. in the paediatric section of the British National Formulary, 1963. The Stabillin V-K range replaces the Calcipen V range of oral penicillins, which is being discontinued when present stocks are exhausted.

COSMETICS AND TOLLETRIES

Concentrated Bath Essance.—Richter Laboratories. 14 Weedington Road, London, N.W.5, have launched a new bath essence, Richpine, which "liberates pine vapour" and softens the water. The packs are bottles of 4 and 8 oz.

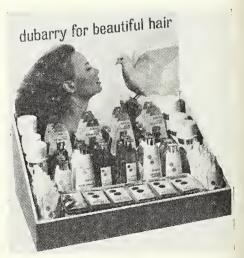
Anti-wrinkle Treatments. — Helena Rubinstein. Ltd., 3 Grafton Street, London, W.1, offer two new preparations, one for the eves and one for the hands, into their biological anti-wrinkle treatment range. Skin Life eve cream "noticeably combots and halts wrinkles in an unbelievably short time" and Skin Life hand treatment is stated to result in a dramatic improvement in the condition of the hands "so that they take on the firm, supple look of youth once again."

To letries for Ho iday Shoppers. —
Roberts Windsor. Ltd., 63 Grosvenor
Street. London, W.l. are launching two
new Windsor to let prenarations in
polythene bottles designed to attract
summer boliday shoppers. The first is a
moisturising hand cream claimed excellent as an overall body lotion, the
second a puffer tale containing a de-



odorant. Both are offered in fern, gorse, lavender and dianthus fragrances to match perfumes in the existing Windsor toilet soap range. The bottles are in pearlescent polythene with cap colouring and printing to indicate the perfume of the contents (golden-yellow for gorse, cool green for fern, etc.).

Hair Beauty Range. — The Dubarry Perfumery Co., Eastleigh, Hants, have launched a new range of competitively priced hair preparations, aimed at women in the free-spending lower age group. The range comprises aerosol hair spray in two sizes, squeeze pack or refill sachet; setting lotion in pump bottle or squeeze packs with refills, hair colour-



ant in four shades; brush-on hair brightener; beauty and medicated shampoos in bottles and sachets. Packaging has been designed to appeal to the younger consumer. Most of the items are in white plastic containers with surface design in green or pink. For displaying the products, chemists are offered an alternative of a wire or card-board counter "dispenser," both of which are featured prominently in advertising scheduled to appear in women's magazines and television "commercials" from all major stations.



NEW BOTTLE AND NEW SIZE: Southalls (Sales), Ltd., Bessemer Road, Welwyn Garden City, Herts, now issue Nivea sunning oil in the new unbreakable bottle illustrated. Made of clear acetate, the bottle has been designed for convenient handling and may safely be earried in pocket or handbag, Nivea Sunfilta is now available in a new family size (also shown).

SUNDRIES

Drinking Water for Holiday-makers.

The British Drug Houses, Ltd.,
Graham Street,



London, N.1, have produced an important new product, Aquaclene, for counter sale by chemists only, and are promoting it with a major advertising campaign. Aquaclene ís tablet which, dissolved in water, sterilises it without affecting the taste. The product is presented in tube of fifty (enough to treat up to 50 pints of water). The makers stress the size of the

potential market by pointing out that about 5 million people will be going abroad this year, and that many "stay-at-home" holiday-makers will be camping, hiking, etc. Both groups will want to avoid upset stomachs due to tainted water. For drinking, teeth cleaning, etc., Aquaclene provides the answer.

A "More Versatile" Cordless Shaver.—The 711, a new luxury shaver from Sunbeam Electric, Ltd., East Kilbridge, Glasgow, is claimed to offer "all the advantages of a Sunbeam shave plus a new factor": greater versatility of convenience and freedom of use. Of modern hand-fitting shape and size the shaver has a compact motor operated by four nickel cadmium



power cells and charging unit all contained within the shaver. There is no separate charging unit, nor are there extra pieces to be fitted together. The Sunbeam 711 owner can "shave at any time, anywhere." Cords, power points and mains supply are unnecessary, and the power can be replenished anywhere overnight where mains a.c. voltages from 90-250 volts are available, and cannot be overcharged. A safety lock feature prevents the shaver from being turned on while recharging is taking place. The instrument has three locked-in hollow-ground blades, a flip-open head for easy cleaning, and a convenient on/off switch.

Medicated Products for Domestic Pets. — Laboratories for Applied Biology, Ltd., 91 Amhurst Park, London, N.16, have introduced an oxytetracycline-impregnated variant of their Ornimed budgerigar sced and a new speciality Ceruvet-X, described as a rapid means of removing impacted ear wax from cats and dogs. Ceruvet-X is issued in a plastic dropper pack.

Hygienie Towelette. — Whitecroft (Lydney), Ltd., Whitecroft, Lydney, Glos, are marketing a new antiseptic and hygienic towelette Savett for use when soap and water are lacking. The towelette may be used for neutralising bad odours, to disinfect and deodorise,

clean and refresh, at home, at work, on tour, or at restaurants. Made in Sweden, the towelette is issued in box of ten, each hermetically sealed.

Midlands Launch for New Spun Tissues.—Inveresk Paper Products, Ltd., Worthing, Sussex, are launching in the Midlands a new Glen range of spun tissue products (facial and toilet). Advertising on the theme "Other tissues feel soft . . . until you feel Glen" commences shortly and will



continue through the winter, with whole-page Press advertisements and television "commercials." The Black Watch tartan theme of the pack design is featured on a range of display material. The makers claim for Glen spun tissue that it is softer and stronger than other tissue—both facial and toilet and has no "paper odour."

PHOTOGRAPHIC NOTES

Higher Concentrate Developer.— R. F. Hunter, Ltd., 51 Gray's Inn Road, London, W.C.1, announce that Paterson Acutol will in future be supplied as a concentrated solution. The new solution is diluted 1 to 10 for use and is stated to have an increased shelf life. Packs are bottles of 6 and 40 fl. oz.

Miniature Exposure Meter.—Neville Brown & Co., Ltd., 93 New Cavendish Street, London, W.1, are marketing a clip-on exposure meter weighing less than 1 oz.: the Bewi Piccolo meter. Manufactured in Western Germany, it is a selenium cell meter that gives linear readings. With time of exposure set, needle points to most appropriate aperture.

Novel Photograph Albums.—Alleged to avoid the need for glue, corners, hinges or tape because photographs are held by static electricity and are protected by a clear, tough acetate sheet, Magnet Vue albums are bound in gold-blocked simulated leather and are available in a variety of colours. The 11³/₄ x 11¹/₄ in. double-sided sheets are locked in by screws and posts. Refill packs of the sheets are available. The albums are distributed by Lynvet Imports, Ltd., 54 Pembroke Road, London, W.8.

Lecture Service.—A lecture and demonstration service on a selection of topics related to enlarging has been organised jointly by Durst, A.G., Bozen, Italy, and Photopia. Ltd., Hempstalls Lane, Newcastle, Staffs. The service, which is free, is available in the Scottish Lowlands (the belt between Gourock, Stirling and Dunfermline in the north and Ayr and Edinburgh in the south); county Durham and North Riding of Yorkshire; East and West Ridings of Yorkshire; Lancashire,

south of Preston to Burnley; Cheshire; and Staffordshire, north of Stoke-on-Trent; Lincolnshire and Nottinghamshire; Norfolk and Suffolk (within a 50-mile radius of Lowestoft); London (area within a 20-40 mile radius of Woodford Green); and Somerset (within 50-mile radius of Bridgwater).

Colour Photography Book.—Second edition of "Photography in Colour" (formerly entitled "Photography in Colour with Kodak Films") has been published by Kodak, Ltd., Kingsway, London, W.C.2. It gives technical data on Kodak colour films and advice on the control of lighting, colour balance and exposure. Picture-making in colour, both outdoors and indoors, is dealt with and there are chapters on projecting transparencies, processing Ektachrome film and on colour prints.



A CAMERA IN CAKE: At the opening of his exhibition, "Shakespeare—All the Plays In Pictures," at Kodak House, Kingsway, London, W.C.2, on June 2—his sixtieth birthday—Angus MeBean receives from Sir Laurenee Olivier a cake in the shape of a plate eamera, with lens and bellows, upon a bed of sixty flashbulbs.

This is how we shall present our Rapid cameras and Rapid films to the public from 1st July

Rapid – the photographic sensation Rapid – a newway of photographing. Simpler, quicker, more reliable and more handy too. Just insert the Rapid cassette and the film threads itself – then photograph. No rewinding. Rapid – the new joint international system adopted by well-known firms.

Agfa presents:

Cameras and film cassettes for the Rapid system

Anyone can buy them

 because they are so reasonably priced

Anyone can load the camera with them

because the film threads itself
 Anyone can photograph this way

- because it is so simple.





Agfa Iso-Rapid I — A small, good-looking pocket-size camera, in fact a genuine miniature camera which anyone can use. Simple, reliable, quick and convenient. Just insert the Rapid cassette and the film threads itself. You can then photograph without rewinding the film. 16 exposures 24 x 24 mm. Large, brilliant viewfinder, Rapid film transport wheel, film









photograph



load

Agfa Iso-Rapid IF — Just as small and handy as the Iso-Rapid I but featuring in addition a built-in flashgun prepared for use in a second. For brilliant black and white and Agfacolor photos in any light. Big brilliant viewfinder, Rapid film transport wheel, film counter.



Agfa Silette Rapid I — The miniature camera proven for its reliability a million times over — now also available with the Rapid cassette: Insert the Rapid cassette and the film threads itself. You can then photograph without rewinding the film. 12 exposures 24 x 36 mm. Large, brilliant viewfinder, rapid wind lever for transporting the film quickly, film counter, flash contact.

Agfa Isopan F 17 Rapid — A black and white film giving excellent results in good light. Agfa Isopan ISS 21 Rapid — A black and white film for use in poor light. Agfacolor CN 17 Rapid — A universal film for colour and black and white photography. Agfacolor CT 18 Rapid — A film yielding brilliant colour transparencies and bright CT colour prints.

.....and the film threads itself

TRADE NOTES

Size Change.—Carlton Laboratories (Southern), Ltd., 2 Norfolk Square, Brighton, Sussex, have introduced a new 1,000-tablet pack of Feravol-G; the 700-tablet pack is discontinued.

Source of Supply.—Orders for the proprietary product Etsonal should be addressed to Mawson & Proctor Pharmaceuticals, Ltd., Low Friar Lane, Newcastle-on-Tyne, 1.

An Additional Size.—FBA Pharmaceuticals, Ltd., Burrell Road, Haywards Heath, Sussex, have added to their range a 20 x 0.05 gm. size of Fabahistin (mebhydrolin napadisylate, B.P.C.).

Box Cover Free.—Customers sending up two tear strips from Kleenex tissue packs (one of them coloured) are being sent by the manufacturers, Kimberly-Clark, Ltd., Larkfield, nr. Maidstone, Kent, a free decorated cover for the Kleenex tissues box.

Agents in Britain.—Dales Pharmaceuticals, Ltd., Power Road, Chiswick, London, W.4, have been given the agency for Great Britain for all products manufactured by J. L. Chatelain, Paris, France. Supplies of Urodonal, Jubol, etc.. are now available from Messrs. Dales. Prices are unchanged.

Product Take-over.—Ernest Jackson & Co., Ltd., Crediton, Devon, have taken over from Keenes Laboratories, Ltd., and Numol, Ltd., Newcastle-on-Tyne, the manufacture, sales and distribution of Perox-Chlor hand beautifier and nail cleanser and of Proctor's Pinelyptus pastilles for chest, throat and voice. The company's policy is to supply chemists only.

"Father's Day" Promotion. —
"Crowners" in green and orange are currently being put on all Brylcreem tubs to promote sales of the product for "Father's day" (June 21), while the gift "dispenser" has a special blue pack crowner. Window stickers drawing attention to Father's Day are available from Beecham toiletry division, Great West Road, Brentford, Middlesex.

A Correction. — The statement in "Notes on New Medicaments" (May 2) that Sustac tablets have constituents similar to those in Peptacol tablets was incorrect. Sustac is a long-acting preparation containing glyceryl trinitrate; Peptacol contains homatropine methylbromide and phenobarbitone. The method of controlling release of the medicament is the same for both products.

Bottle Prices Increased. — United Glass, Ltd., Leicester Square, London, W.C.2, announce a price increase to take effect on July 1 because of a continual rise in costs. The increase will average about $7\frac{1}{2}$ per cent. and will be applied selectively. The company's note states "there has been no increase in glass container prices since 1961 and generally today's price level is more in line with that ruling in 1957."

Toilet Aids With Tooth-paste.—
Throughout the summer and autumn months, a free "tidy-pack" is being included inside the carton of every large size tube Gordon-Moore's cosmetic tooth-paste. In the miniature

PVC wallet are a nail pad, hair grips and safety pins in small pockets, and a foam brush on the flap. The offer is being advertised on Radio Luxembourg. The gift packs will be with retailers by early June. Wholesalers are already receiving stocks.

Employment Act Forms.—The Contracts of Employment Act, which comes into force on July 6, stipulates that every employee who is employed for twenty-one hours or more a week must be provided with a statement setting out the terms of employment. Manifoldia, Ltd., West Bromwich, Staffs, provide carbon-loaded forms which, when completed, comply with the requirements of the Act—the top copy is intended to be kept by the employer, the carbon copy being passed to the employee.

Prices Reduced. — Organon Laboratories, Ltd., Crown House, London Road, Morden, Surrey, have decided to pass on to the actual users in the form of lower prices production economies made possible by increased usage and acceptance of their oral contraceptive Lyndiol and by wider spread of research and development costs. The new prices (wallet of 20, trade 4s. 4d., retail 6s. 6d.; pack of five wallets, trade 19s. 4d., retail 29s.), become effective on June 15, and claim forms are being sent to all chemists.

Discontinued. -- Boots Pure Drug Co., LTD., Station Street, Nottingham. have ceased production and supply of their speciality Febramine, Retailers should return stocks for credit to the company's returned stock department, Beeston Works, Beeston, Nottingham, enclosing name and address of sender with the goods.—HORLICKS, LTD., Pharmaceutical division, Slough, Bucks, announce that the following Rouse of Wigmore Street products have been discontinued:-Dermisol, Gacol cough lictus, Oxazine, Pinidrine, Rheumester Tri-Tonic Phosphates, cream, Nuclein Co.

Consumer Competition.—A holiday competition "that will bring sunshine to chemists' Saxin sales" is being operated by Burroughs Wellcome & Co. (The Wellcome Foundation, Ltd.), 183 Euston Road, London, N.W.1. Every entry will represent the sale by a chemist of a 500-size Saxin tube. There are three first prizes, each of a seventeen-day holiday for two in Barbados. Other prizes include 100 wrist watches, 200 bathroom scales and 500 sets of stainless steel carvers. The competition is being strongly promoted in the Press. A combined showcard and entry form holder is available. The competition runs from June until August 31,

Not a Mere Agent.—Until Breck hair products were acquired by the Cyanamid organisation and given the national promotion described in the C. & D., May 23. the sole distributors were George Spencer & Son, Ltd., Kynance Place, Gloucester Road, London, S.W.7. Messrs. George Spencer purchased the merchandise on their own account, distributed it to the trade throughout the United Kingdom, and were responsible

for advertising and marketing the products. They point out that, in the circumstances, it was unfair to refer to them anonymously as "agents." The Editor regrets that less than justice should have been done albeit unintentionally, to Messrs. Spencer, who continue to be distributors of the products, though no longer on an exclusive basis.

More Prizes for Chemists. — More prize-winners are announced by Keldon, Ltd., Aintree Road, Perivale, Middlesex, in the company's Optrex display scheme. £5 prizes go to A. L. Smith, 130 Far Gosford Street, Coventry, Warwicks; Prytherchs, Ltd., 82 Castle Street, Hinckley, Leics, Gordon Davis, 20 High Street, Quorn, Leics; Pynegar, Ltd., 74 Leicester Road, Loughborough, Leics. W. Beck & Sons, Ltd., 124 Winson Green Road, Winson Green, Birmingham, 18; E. W. Holding, 517 Hagley Road, Edgbaston, Birmingham, 17; J. T. & D. A. Mountain, Ltd., 16 Sheep Street, Bicester, Oxon. £2 prizes go to R. G. Lord, 16 Leicester Road, Loughborough, Leics; E. R. & P. Summerfield, 72 Station Road, Erdington, Birmingham, 23; A. B. Hargreaves, 434 Kingstanding Road, Birmingham, 22c.

A Newspaper's Photo Contest.—The News of the World announces a £250 "Happy Snap" competition for amateur photographers. The contest has four classes: "Wish you were here" holiday views; most appealing animal study; happiest snap; and people at work. The pictures must be black and white, at least postcard size. Entry is free with no limit on number of prints submitted, but each entry must be accompanied by a coupon cut from the paper (coupons are being published weekly throughout the summer). Selected entries are being published (payment £5) during the holiday season, and all published photographs will go back into the pool for the final judging. Class winners each receive £25. "Overall best" qualifies for £100 and second best for £50. Closing date is September 30; winners' names will be published on October 11.

Changes of Distributor.—Distribution of the oral vaccine treatments of Lantigen (England), Ltd., is being undertaken by RICHARD & APPLEBY, LTD., York House, Westminster Bridge Road, London, S.E.1, from July 1.—Scott & BOWNE, LTD., 50 Upper Brook Street, London, W.1, have taken over the distribution of Diamon Deb in Great Britain.

Prices Cut.—Pfizer, Ltd., Sandwich. Kent, announce the following new trade prices:—Deltacortril tablets, entericcoated. 2.5 mgm., 100, 11s. 3d.; 500, 48s. 9d. Terra-cortril eye/ear suspension, 5 mils, 8s. 1d.; spray, 1 fl. oz., 10s. 11d., 2 fl. oz., 19s. 2d.; topical ointment, ½ oz., 4s. 11d., ½ oz., 11s. 2d. Atarax (marketed by Harvey Pharmaceuticals, a department of Pfizer, Ltd.), tablets 10 mgm., 100, 14s. 10d., 25 mgm., 20, 6s. 9d.; 100, 29s. 8d.; syrup, 4 fl. oz., 4s. 8d.

INFORMATION WANTED

The Editor would appreciate information about: Juyé Queen bee jelly capsules

In my view this

SAFETY OF DRUGS

An appraisal by Lord Cohen of Birkenhead

"DRUGS are like motor cars: they are only safe if they are handled with proper care. Occasionally, even when they are handled with care, something goes wrong." That is the summing-up by Lord Cohen of Birkenhead to an article on "The Safety of Drugs" he contributes to the current issue of the *Journal* of the Royal Society of Health. In the article Lord Cohen explains how and why drugs are tested before release for general use. A heavy responsibility lies on the pharmacist who dispenses drugs to ensure that the drug is of the right quality and formulation, that it is properly labelled with instructions so that it does not deteriorate. Manufacturers must help by ensuring that professional literature is not misleading, is not a distortion of the facts and does not minimise the potential hazards of the drugs. But the heaviest responsibility is that of the doctor who prescribes the drug and supervises the patient during its continuing administration. With him lies the final decision whether, when he has weighed the hazards and potential benefits, he is justified in using the drug. He must be alert to recognise danger signals. Doctors and pharmacists have responsibilities in keeping abreast of current knowledge and advances in medicine. Safety is never absolute but if high professional competence and integrity are brought to bear on the decisions to be taken, then unjustifiable hazards will be remote and minimal. The justification for the use of a drug lies in the fact that its potential benefits outweigh its potential hazards. That is why we should not be prepared to accept any significant hazard in a drug used for the treatment of a common symptom, such as a hypnotic or headache powder, whereas we should be quite justified in accepting a high degree of hazard in a drug that may benefit a grave disease, for example. leukæmia.

Manufacturers Commended

Lord Cohen commends the organised pharmaceutical manufacturers responsible for 90 per cent, of the drugs marketed in this country (members of the Association of the British Pharmaceutical Industry and the Proprietary Association of Great Britain) for readily agreeing to act upon the decisions of the Dunlop Committee. "That, I think, is a tribute to the importance the pharmaceutical manufacturers have laid upon trying to ensure that drugs used in the treatment of disease are as safe as they possibly can be. . . . The view that the Medical Research Council or indeed any other body appointed by the Government should be responsible for carrying out clinical trials is not acceptable. It is neither desirable nor practical. The Council is concerned primarily with research, not with routine trials." Not even M.R.C. trials had been able to determine whether anticoagulants were of value in the prophylaxis of coronary occlusion.

"A central body properly equipped and staffed to carry out this work would be a large and quite unnecessary expense. The manufacturers are the

best people to arrange their clinical trials and they have no difficulty-of this I am quite convinced—in arranging clinical trials for drugs which have significant value. . . . The reports of clinical trials, and particularly of the pilot trials demanding to-and-fro communication with the manufacturers. carried out by competent clinicians, are necessary in assessing the value of the drug. My view is that forming a panel of clinicians who are prepared to carry out trials is of little value for each trial you must choose clinicians with special experience in the medicinal field in which claims for the drug are made. Then the numbers of patients, what controls there were, how long the trial has gone on, what hazards have been revealed, and so forth, give the material for an

"Again, if there is a central body responsible for the clinical trials of drugs manufactured in this country, what action is to be taken about drugs manufactured abroad? Are you going te say that they must not be used by us before they have undergone clinical trials here? Would you not delay the introduction in Britain of established

procedure suffices to determine the

expert assessment.

safety of drugs.

drugs manufactured in America and elsewhere? Or are you simply to assess the clinical trials carried out by foreign manufacturers and then, if they are satisfactory, say that the drug may be marketed here? If that were so you would be penalising the manufacturers in this country.

Lord Cohen considers that the National Health Service offers an opportunity of carrying out unique field trials on the incidence of hazards.

BRANCH EVENTS

NEWCASTLE

Forensic Pharmaceutical History

Some legal history that has affected the course of present-day pharmaceutical practice was outlined to members of Newcastle Branch of the Pharmaceutical Society by Mr. C. C. STEVENS when he spoke on "Leading Cases in Forensic Pharmacy" recently. Mr. Stevens began with the Jenkin case of 1920 in which it had been ruled that it was not within the objects, powers, or purposes of the Pharmaceutical Society to regulate its members' hours of business, wages and conditions of employment between masters and employees, and prices of goods. Nor could it insure and effect insurances of members against certain risks. The speaker reminded members that, if the Society exceeded the limits of its Charter, a petition could be brought for its dissolution. Risk of an injunction could be one reason why the Society had not produced the scale of professional fees requested by the members. Mr. Stevens suggested three ways by which the Jenkin judgment could be overcome: (a) a test case: (b) a new Charter; (c) new legislation, the third method being probably the most practical. The case of the Society v. London and Provincial Supply Association, Ltd., in 1880, could, had the Society won, have changed the course of retail pharmacy. It was brought to decide whether a "person" (permitted to carry on pharmacy by the current Act) could include an incor-porated company. The Society, then only forty years old and not very well had lost the case at the county court, had the decision reversed by the Court of Appeal and finally lost it in the House of Lords. Had the case been won there would have been no multi-ples today. The case of Hygienic Stores v. Coombs (1937) had established that even though no dispensing was done and no poison sold during particular periods of the day, a pharmacist must be present during the whole time that business owned by an authorised seller of poisons, was open. In 1943 the High Court in Roberts v. Little-woods Stores held that the presence of the pharmacist in another part of the

building did not constitute supervision of the sale of medicines. Dispensing should therefore be closely linked with the front shop. Mr. Stevens said that another case, often regarded as a safeguard for the retail pharmacist. might also have greatly reduced the pharmacist's case for claiming the sole distribution of medicines. In the Society v. Heppells (1945) it had been found that the pharmacist was not responsible for the contents of an original pack, so no different from the grocer so far as guaranteeing quality was concerned. The final judgment mentioned by Mr. Stevens was that of the Society v. Boots (1953). Then the Appeal Court held that supervision by a pharmacist, as required by the 1933 Act, was effective in a self-service store if a pharmacist witnessed the payment for the goods previously selected by the customer.

LIVERPOOL

Annual Meeting

TRADING stamps and resale price maintenance were the two main problems that had confronted the committee of the Liverpool Chemists' Association and Branch of the Pharmaceutical Society during 1963-64, it was stated at the annual meeting on May 7. A. L. SAUL (immediate past-president) spoke of members' pleasure that Mr. W. J. Tristram was being made one of the first honorary aldermen of the City. Mr. R. CLITHEROW (secretary) said he was pleased to report that the tradingstamp problem had been eliminated from within the profession. Resale price maintenance, on the other hand, was "still with us": its abolition other had yet to leave its mark. Mr. Saul had been corresponding with Liverpool M.P.s on the subject. The unethical conduct of a small minority of local pharmacists had frustrated the committee's efforts, but the vast majority of members had given praiseworthy support. It was hoped to organise joint meetings of local branches to cater for members interested in technical and scholastic subjects, and to give more opportunity for members to put forward their views on subjects that were of topical interest.

Correspondence

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

For the Records

SIR.—Now that the School of Pharmacy here in Plymouth is closed, and the plaque unveiled in its memory, a desire has been expressed to form a roll or register as a permanent record of all pharmacists who passed through its doors with perhaps—if sufficient number are interested and a suitable time is found—a reunion dinner. I would therefore be grateful if, through your columns, I could ask all former students to write to me giving year of entry, leaving, and present position, and stating if they would be interested in a reunion dinner and the time of the year most suitable.

MERVYN MADGE. 1 Saltburn Road. St. Budeaux. Plymouth

"Here's a First-rate Opportunity"

SIR,—With great glee I discovered that Xrayser, in whose writing I have never previously detected a major error, is not infallible. In writing of the recent Council election results (C. & D., May 30, p. 539) he declared that seven of the "old guard" (those who constituted the Council in 1961–62), would be facing the electorate in 1965. Two of the seven (Messrs, Darling and Lowther) were not "old guard," having been returned only at the end of that twelve month period.

LINESMAN

[Xrayser admits the error, disclaims the infallibility in verse:—

I have faced with due tranquillity
The prospect of infallibility
But it doesn't seem to suit me
Or my normal affability
I am good at incivility
Better at imbecility
But have not the brain agility
To ensure infallibility
(The music will be found in the "Pirates of Penzance").—EDITOR.]

A Cut in Dealers' Discounts

Sir,—The arbitrary action Ilford, Ltd., in cutting dealers' discounts is surely most reprehensible. To know that the Photographic Dealers' Association has voiced a strong protest in the matter is gratifying and reassuring. It is to be hoped that Messrs. Ilford are made to realise that their action could easily endanger their future relationship with the photographic trade. At times like the present when competition is so cut-throat, a manufacturer such as Ilford, Ltd., needs the goodwill of all pharmacists and photographic dealers more than ever. It is not clear how the points system now being introduced can compensate for the cut in discount. The great danger is that other photographic manufacturers will be tempted to follow suit, and it is to be hoped that all pharmacists and photographic dealers will express their disapproval to Mcssrs. Ilford in no uncertain terms.

D. J. A. Morgan, Guildford, Surrey

"That N.P."

SIR,—The name on the label is not always that of the contents. I was recently asked to identify some tablets in a bottle bearing a proprietary name on the dispensing label. The bottle contained three different varieties of tablets, none of which corresponded to the details on the label. Naming contents on the label is not, therefore, an ideal procedure although, of course, if can help provided the patients do not change tablets over into other-perhaps "pet containers. I note that makers are now beginning to brand their tablets with their "house" name. Both large and small tablets as well as capsules are being partly identifiable this way. May I therefore suggest that they also brand their tablets with a code number, which could be specified in all price lists and reference literature. It would then be quite straightforward to identify any proprietary tablet without its name being disclosed to the patient. It does not seem unreasonable to suppose that a similar method of stamping official tablets could be devised, perhaps using a double code number for B.P., B.P.C., and N.F. tablets, this number to be included in the monographs and other official publications, as well as on the labels of bulk supplies. This may seem far-sighted, but in the long run it will save endless time and—who knows?many lives. NORMAN L. BANKS,

N L. BANKS, Portsmouth

New Council Please Act

SIR,—The constant change of members on the Council of the Pharmaceutical Society is evidence of dissatisfac-tion among the electors. Enlarging the number of members on the Council will not improve matters, and the idea is laughable when the present members in fear of being defeated at the polls each year. Since the new educational policy was accepted after a great deal of distrust and much suspicion, it seems that the dividends that members of the Society are going to reap are greater fees and a decreasing number of members to pay them. The standard of education required to enter pharmacy today is high, and it is logical that students of the future should aim to be degree men and as such have no allegiance to the Society. In fact, it would be useful to have figures showing the numbers of men who have obtained their degree and of those who have registered with the Society and are still members. In general, degree men will not be interested in entering retail pharmacy, and the dip-loma course is the only hope for the dying race of retail pharmacists, always assuming that they will wish to enter retail pharmacy as it is developing today. It would seem that the Council of the Society has lost interest in retailers apart from their registration fees. In fact, the Society seems to have killed off most of the professional "druggist" side of pharmacy, making

the modern pharmacy one big Schedule-4 cupboard. It is a pity that some formula could not have been found whereby the integrity of the pharmacist was not impugned and the onus of control put on prescriptions. Neither the Council of the Society nor the National Pharmaceutical Union seems to have taken much interest in the present investigation into "purple hearts" the market in those drugs. For all the legal restrictions imposed, those drugs are being sold by the thousand in the big towns. Let us hope that no pharmacist has a hand in this traffic, and that the lack of interest shown by the Council is a sign of confidence in its members. Hopes of improvement in National Health Service remuneration by participation of the Council of the Society in the negotiations is still something to look forward to. Perhaps the arrival of a new member of Council whose experience of the philosophy of the multiples must be extensive will prove helpful in the future. From the point of view of the ordinary member of the Society there are other things to worry about than the cost of new premises and the status symbols that seem to be an obsession these days. The report on the General Practice of Pharmacy was taken seriously by some, but little is heard about it now. The tendency is for pharmacies to become walk-around stores these days, and the professional side is losing ground. The N.P.U. shouts for modernsation, resale price maintenance and self-selection on miniature super-market lines. The Society's Council whispers encouragement to the professional pharmacist but does little to encourage better payment for his services. We look forward to hearing from the new Council, and to seeing full reports of progress in their cfforts to improve the status of the professional pharmacist and to insist on the correct level of remuneration, whether it be in hospital or in retail. Let us also have more positive statements and fewer negative restrictions. How about a positive statement on professional dispensing fees and their application for a start ?

J. H. WILLIAMS, London, S.W.16

A Candidate's Thanks

SIR,—May I trespass on your valuable space to say a belated, but nevertheless sincere, thank-you to the members who voted for me in the recent Council election and to extend my congratulations to the seven successful candidates.

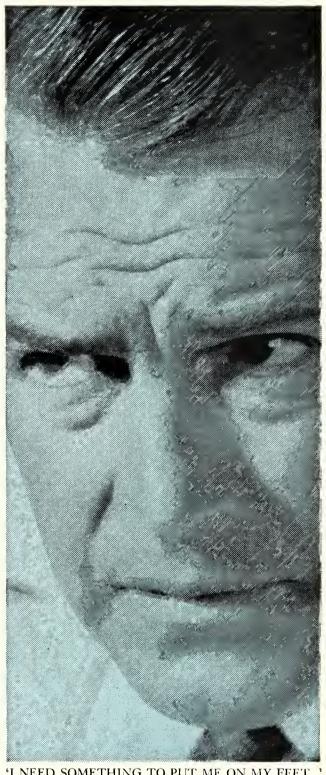
A. GORDON REED, Leeds, 11

Appreciated

WE do indeed find the Price List extremely useful. Despite the lists provided by the manufacturers we lean very heavily on the C. & D. list for the up-to-date information which it provides.—F.P.



"THINGS ARE TOO MUCH FOR ME THESE DAYS..."



'I NEED SOMETHING TO PUT ME ON MY FEET...'

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INECTO HINT OF A TINT A skilfully blended luxury shampoo plus a subtle hint of colour, in one sachet, for regular weekly use. Retail price 1/2 a sachet. Wholesale price 8/- a dozen plus P.T. Available in an attractive counter display outer, complete with colour selector, which contains 1 dozen of each of the 5 shades. Wholesale price 40/- plus P.T.

Your profit 4/- per dozen

INECTO HAIR MAGIC An easy-to-use semipermanent colouring available in three series— Shampoo, Brush-On and Fantasy Series. The Brush-On has been created to cover and colour hair up to 50% grey and to restore colour to faded hair. Retail price 3/6. Wholesale price 2/per bottle plus P.T. Your profit 1/- per bottle

INECTO HI-LIFT The lanolised ultra bleach for lightening and brightening the hair or for white bleaching. Retail price 3/6 per carton. Wholesale price 2/- per carton plus P.T.

Your profit 1/- per carton

INECTOFOUR-IN-ONE A permanent, non-fading, oil-based colouring which lightens, brightens, colours in one application. Ideal for covering grey or white hair. Retail price 4/8. Wholesale price 2/8 per carton plus P.T.

Your profit 1/4 per carton

INECTO RAPID A permanent, non-fading liquid tint giving 100% coverage on any amount of grey or white hair. Retail price 4/8. Wholesale price 2/8 per carton plus P.T. Your profit 1/4 per carton

INECTO COLOUR CRÈME A permanent, nonfading colouring in crème form which gives 100% coverage on grey or white hair. Retail price 6/4. Wholesale price 3/7 per carton plus P.T. Your profit 1/10 per carton

INECTO CRÈME FOR MEN A permanent, non-fading colouring in 6 sensibly masculine shades It gives 100% coverage on any amount of grey or white hair. Retail price 6/4. Wholesale price 3/7 per carton plus P.T. Your profit 1/10 per carton

INECTO CRÈME HAIR LIGHTENER A soft, gentle crème which lightens the hair 3 to 4 shades and leaves it in superb condition. Retail price 3/6 per carton. Wholesale price 2/- plus P.T.

Your profit 1/- per carton

INECTO HAIR COLOUR STAIN REMOVER An instant-action hair colour stain remover with a delightful perfume. Retail price 2/11 per bottle. Wholesale price 1/8 per bottle plus P.T.

Your profit 10d. per bottle

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Your profit 10d. per bottle.

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Finding Money for Medical Research

In its latest booklet, "The Finance of Medical Research" (pp. 32, price 2s.), the Office of Health Economics analyses the expenditure on medical research in 1961-62 (estimated at £27 millions) whether by the Government, the pharmaceutical industry, or charitable organisations, and compares it with comparable expenditure in the United States of America. The authors dramatise their findings by pointing out that such expenditure amounts in Britain to only $\frac{1}{4}$ d. per person per day, or sixpence for every £ spent on the National Health Service. The United States spend fifteen times as much.

Research expenditure by the Government has nevertheless been rising faster than total National Health Service costs, while research expenditure by pharmaceutical manufacturers has been rising more rapidly than either their sales to the National Health Service or their total sales.

In both Britain and the U.S. the Government pays for more than half the cost of all medical research. The U.S. Government raised its support for medical research between 1959 and 1963 from £125.5 millions to £276 millions, the British Government from £10.5 millions to £15.5 millions. The pharmaceutical industry finances one-third of the total British medical research, rather more than in the U.S. The report discusses and compares the merits of project and block grants and of research units and research institutes. "Total reliance on a single source of funds," it declares, "can be dangerous in any field, but creates special difficulties in medical research." It is regrettable, too, that in the pharmaceutical industry (similar problems face other sciencebased industries) the pace of expansion in research has slowed up. Many of the difficulties that have arisen are attributed to "traditional economic attitudes," which consider selling prices mainly in terms of production costs. "Production frequently depends on research, and progress requires the financing of the heavy overhead costs of a continuous and expanding research programme."

In recent years private contributions to medical research charities have grown rapidly, and that is regarded as evidence of growing public demand for the benefits such research can bring. Half the number of such charities were founded or reconstituted for research purposes during the 1950's "and the trend is continuing."

The obvious issues presented by the report are whether this country is spending enough on medical

research and whether the money is being spent in the right way. There is no obvious yardstick except the results over a period. In a general way it would seem cause for disquiet that American spending has been rising faster than British, so that the gap between the Government medical research budgets of the two countries (about 15 to 1 at present) is increasing. It follows that research workers are becoming increasingly dependent on Government money which, through one or another official financing agency, now provides about three-fifths of the medical research finance in both Britain and America. Centralised finance tends to mean that scientists, working along established lines on diseases commanding the greatest public interest, get the Innovations in research subjects and most money. methods tend to be relatively short of funds.

As the proportion of medical research financed by the Government has risen, the proportion of medical research financed by the pharmaceutical industry has been tending to fall, especially in Britain, where special factors, such as invoking section 46 of the Patents Act to justify purchases of "cut-price" specialities, and of section 41 to grant licences of right to manufacturers other than the patent-holders, seems to be having a deterrent effect on the research enterprise of established manufacturers of pharmaceutical specialities.

The discrepancy between Britain and America is greatest in the field of research by charities specialising in particular diseases, "and it is perhaps the very much larger amount of money available from private charities in the U.S.", the booklet declares, "that has contributed most of all to the 'brain drain'." For diseases such as cancer and polio money is forthcoming much more readily from both Government and charity than for many other diseases, some of which—such as mental illness—have even had to forgo worth-while research projects.

The hope must be that expenditure on medical research in Britain keeps pace, or even tends to overtake in all sectors, that of other countries, since experience shows that there is a fair degree of correlation between the amount spent and the results achieved. Britain produces the scientists capable of carrying out the researches and it would be a regrettable waste if they were deprived of opportunity and had to go elsewhere. The loss would be not only of their talents but of the industrial production resulting from their efforts. The need seems to be on the one hand for still more Government finance spread beyond the most spectacularly urgent disease problems into a wider field, and on the other for a renewal of certainty to manufacturers that the rewards of their efforts will not be open to competitors to reap without comparable contributions in research, enterprise and invention.

Payment of Tax at Disputed Figures

A POINT affecting taxpayers who object to tax assessments made against them was recently determined by the Court of Appeal.

A taxpayer had appealed to the special commissioners against a surtax assessment and the special commissioners on appeal had confirmed it against him. The taxpayer then appealed to the High Court. While his appeal was pending the Inland Revenue issued a writ against him claiming the amount due under the assessment still under appeal. In the view of the Appeal Court, the

taxpayer had no defence to such a claim. He was bound to pay the amount due under the assessment though still disputing it, and though he had appealed against the Commissioners' decision. The only remedy open to the taxpayer in such circumstances was to proceed with his appeal against the assessment and, if successful, have the amount refunded in due course.

The law on the point seems harsh, but Parliament itself has regulated the position between the Inland Revenue and the taxpayer in the Income Tax Act, 1952, which provides that, notwithstanding an appeal against the decision of the Commissioners, tax must be paid in accordance with the assessment. It is important, however, to note that, when an assessment is made in the first instance, the situation is different. That first assessment is made on the basis of the return made by the taxpayer. If the Revenue does not accept the figures, it may fix the assessment at a much higher figure, and the aggrieved taxpayer then has twenty-one days in which to appeal to the Commissioners. Once an appeal

has been made by notice to the Inspector, the Revenue can claim no sum by way of tax, except on any part of the assessment which the taxpayer agrees as correct.

Thus if the assessment should be, according to the taxpayer, on the basis of the return made, on a sum of £1,000, and the inspector's assessment is £2,000, the Revenue is entitled to tax on the agreed sum of £1,000, notwithstanding the appeal. That is reasonable enough, since there is no dispute in respect of the lower amount.

Should the decision, on appeal before the Commissioner, be on the higher figure of £2,000, the dissatisfied taxpayer needs to express dissatisfaction immediately after the Commissioners have given their decision, and ask the Commissioners to "state a case for the opinion of the High Court." Those magic words must be said in order to entitle the dissatisfied taxpayer to appeal. That is the stage at which, notwithstanding that the appeal is pending, the taxpayer is no longer entitled to withhold payment of the extra tax payable on the higher figure of the assessment.

"OPEN SHOP"

An unscripted commentary on the special problems of the pharmacist in general practice

E. C. TENNER

THE results of the Pharmaceutical Society Council election show that the great dangers threatening the survival of pharmacy are not alone enough to bring a record, or even a high, number of returned polling papers. The minority who voted at all — 11,456 out of 29,003—sent back to the Council two with previous experience and five "freshmen." It is hard to believe that the five ex-Councillors who were rejected deserved such treatment or to assert that the seven newly elected were anything more than lucky. The nature of the election and of Council procedure seems designed to make it difficult to ascertain the essential qualities and ideas voters are looking for. I cannot myself see that there is in the 1964 results any more rhyme or reason in the election results than would be produced by a pouncing pin influenced by vague dissatisfaction with the status quo, by spotting on the ballot paper some names more famous than the others, or by "plumping" by certain minority interests.

It can now be seen that election to the Council is a gamble. To have a fair chance of being re-elected at the end of a term of office, Council members must change current attitudes and practice so that the members of the Society are able to know, and are kept informed, about the opinions individual Council members hold and how they all line up upon contentious issues. So long as Council members continue to hide comfortably behind the fiction of Council unanimity, so long will they attract too little attention from the voters to win re-election. Perhaps the great incentive of self-preservation will soon drive them to show themselves "for" or "against" in more fully reported committee debates on matters of principle and importance. Their own futures lie in their own hands, but the vitality of the Society is also involved, since the present short expectancy of a Council member's term of service is an unhealthy sign.

Sources of Irritation and Danger

If I were adequately remunerated for my professional work in the National Health Service, I wonder whether I should be so irritated, as in fact I am, by incomplete or illegible EC10 prescriptions? Once I should have imagined that medical practitioners would be ashamed to issue so frequently such careless documents (mirrors to their own inadequacies) but I do so no longer. If drugs, on which

such large sums of the taxpayer's money are spent, are really important as a part of the medical service, then medical practitioners ought to take more pains than they do in filling in the EC10 forms to ensure that the right patients get the right drugs and know how to use them without any need for making further special inquiries. The sex, marital state or initials of the patient are often only to be discovered by inquiry from the person presenting the EC10. "The poor tired doctor was terribly busy at the time." In these days quite different drugs have names so similar that a misplaced or badly written letter could result in a wrong drug being dispensed; good writing should be a part of good medical ethics, yet I regularly experience rudeness or bad manners from several medical men when I get them on the telephone to elucidate their bad writing. Here I will interpose that I also dispense for a minority of doctors who write legibly and carefully completed prescriptions. They are just as busy as the others, but they have better manners. I have lately been thinking concentratedly about the way prescriptions are written because I have so often to worry about Schedule 4A prescriptions that do not include instructions. Quite apart from legal considerations, however, medicines ought not simply to be labelled "as before," especially when a patient has to be handed more than one container each with similar looking contents. More than ever now, when drugs can be so potent, doctors ought to give themselves time to write proper instructions for labels. The careless way in which many prescriptions are too often written nowadays was brought to my notice with especial sharpness the other day. A patient dismissed from hospital was given his tablets (two sorts) labelled by the hospital pharmacist—as is now the practice—with the name and strength of the drug and with rather lengthy and special directions. The patient was told to show his medicines to his doctor so that his treatment could be easily continued. The doctor gave an EC10 for a fresh supply but miscopied one tablet name and strength and, to save himself copying the lengthy directions, simply wrote "as before" for each item. Fortunately the patient had not destroyed his hospital bottles, but telephone calls failed to contact the doctor, and it became necessary to get in touch with the hospital pharmacist about the drug and strength. Later the prescription had to be endorsed.

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PHARMACEUTICAL SOCIETY OF GREAT BRITAIN PRE-GRADUATE TRAINING QUESTION KEPT OPEN

Mr. Sparshott decides to retest Council opinion

HEN the minutes of the Education Committee came up for discussion at the Council meeting of the Pharmaccutical Society in London on June 3, MR. D. E. SPARSHOTT said he was disturbed at the Council's decision to do away with pre-graduate practical training and sought to test the feeling of the new Council on the matter. He gave notice that he would put forward at the next Council meeting a motion to get the matter reconsidered. He had been responsible for training and dealing with thousands of apprentices, and he thought he knew something of the matter.

The Committee decided to give further consideration at its next meeting to the question of implementing its recommendation that, from January 1, 1965, all practical

training should be post-graduate.

The Committee's chairman (MR. H. S. GRAINGER) said that the Society's assistant secretary (Mr. D. F. Lewis) had been in close contact with the British Pharmaceutical Students' Association over resolutions passed at its annual conference and would indicate Council policy to its members. Resolutions by the Association did not commit the Society.

Twenty-eight persons had been registered as "student" during May, making 140 for the year, against 236 registrations at the corresponding date in 1963. During May eight requests had been received for material and literature for use in careers exhibitions and conventions.

Entries received for the summer examinations (1,340) exceeded any previous figure. Totals for 1963 and 1962

were 1,170 and 1,116 respectively.

Official confirmation had been received that the Harrison and Hanbury Foundations had been registered with the Department of Education and Science (Ministry of Education) under the Charities Act, 1960, section 4, in terms modified and agreed by the Council. The Inland Revenue authorities had been informed accordingly. The Council adopted the Selection Committee's recommendation to award the Harrison Memorial medal, 1964, to Mr. Douglas Stephenson, B.Sc., F.P.S., Sevenoaks, Kent, in recognition of his contributions to the development and standardisation of tablets.

Salaries and Recruitment

When it was mentioned that the Society's Office had been asked for advice and comment on the next publication of the Ministry of Labour's booklet on pharmacy in its "Choice of Careers" series, MR. HOWELLS questioned the information the previous edition included on salaries payable in retail and hospital practice. MR. GRAINGER replied that the booklet quoted J.I.C. scales accurately but pointed out that they were minimum salaries. Various members of Council felt that quoting the scale without giving some higher figures for salaries actually paid gave a distorted view of the career value of pharmacy. The President undertook that the matter would be discussed with the compilers of the booklet.

Mr. D. F. Baldwin, Bristol, is being asked to represent the Society on the Regional Council for Further Education for the South-west for three years from September 30.

The Education Committee's other recommendations were

adopted.

Earlier MR. C. W. MAPLETHORPE, entering his second year as president, welcomed the five new members of Council, commenting that the newly constituted Council included representatives of all facets of pharmaceutical work. He expressed the pleasure of the Council at the presence of a second lady member (Mrs. E. J. M. Leigh) and, in welcoming Mr. R. Dickinson, said "I do not know

whether he qualifies as the youngest member." He promised Messrs. K. Jenkins, J. A. Myers and D. E. Sparshott the help of fellow Council members and the staff. Returning thanks, Mrs. Leigh said she hoped to work for the promotion of greater unity; MR. DICKINSON that the goal was increased professionalism coupled with increased economic security; Mr. Jenkins that all could go forward together to further the unity that had been so dramatically established in the past 6-9 months (he expressed special interest in education legislation and public relations and hoped he would have the support of Council in furthering the interests of veterinary and agricultural pharmacy); MR. MYERS promised that he would support pharmacy in general, and particularly hospital pharmacy, to the best of his ability; and Mr. Sparshoff that he had known a number of his fellow Council members for varying periods of years. THE PRESIDENT took the opportunity to thank former members who had been unsuccessful. Mr. Reid had occupied the position of vice-president and president, and had served for over eighteen years; he had sent a friendly letter expressing his continued interest in pharmaceutical matters. Mr. Jackson had served for nine years, Mr. Jarvis Graves for six, and Messrs. Flood and Williams each for three.

Officers

Formalising the results of an overnight ballot, MR. W. J. TRISTRAM proposed the re-election of Mr. Maplethorpe as *President*, saying the Council was fortunate in having a man of Mr. Maplethorpe's experience as president in the difficult and critical times that lay ahead. MR. H. S. Grainger seconded, and Mr. Maplethorpe replied "I realise that in the past decade only two presidents have served for more than one year, and I consider it a particular honour that you have asked me to serve for a second. I have had the whole-hearted support of the vice-president, treasurer and two secretarics, and appreciate the volume of work done by the officers, particularly by members of the permanent staff."

MR. A. ALDINGTON proposed the re-election of the *Vice-President* (Mr. J. C. Bloomfield), Mr. J. B. Grosset seconding. Mr. BLOOMFIELD was sure the coming year would

prove no less happy than the past twelve months.

THE PRESIDENT moved reappointment of Mr. H. Steinman as *Treasurer* and in his reply Mr. STEINMAN described Mr. Penson (finance officer) as "a tower of strength." The formal reappointment of Sir Hugh Linstead as *Secretary* and of Mr. F. W. Adams as *Secretary and Registrar* was applauded.

Benevolence

THE CHAIRMAN of the Benevolent Fund Committee (Mr. T. Heseltine) reported receipt of £140 from the estate of the widow of the late Mr. John Scrase; and grants to two members and six widows of members. The Committee recommended that grants should also be made to three members, five widows, and in respect of the orphans of three members. The South-east Metropolitan Branch is being thanked for its offer to provide Birdsgrove House with portable radio sets in memory of the late Mr. R. Irving. The Committee's recommendations were adopted by the Council.

Organisation Committee

Presenting the Organisation Committee's minutes, THE CHAIRMAN (Mr. A. Aldington) said the Committee had agreed that, in future, the Committee would invite the appropriate Committee or Committees of the Council to

comment on each resolution passed at Branch Representatives' meetings and would then collate those views for submission to the Council. That would simplify preparation of the interim report on the resolutions. A letter from the Lancaster, Morecambe District and Westmorland Branch noted with pleasure that the Council had accepted the resolution it had submitted to the Representatives' meeting in 1961, and gave its view that the smooth progress of the year's meeting was partly due to the remarks of the chairmen of the Council Committees present on the platform in accordance with that resolution.

The Committee recommended holding the annual and Branch Representatives' meetings, 1965, on May 19 and May 20 respectively, and the Branch Secretaries' meeting, 1965, on October 13. It was agreed that speakers to branches on the proposed new constitution of the Council should be regarded as additional to Branch quotas of headquarters speakers.

Newspapers and broadcasting organisations, it was reported, were increasingly relying on the Society for information about drugs.

The Finance and General Purposes Committee reported having discussed modifications to by-laws to provide a better basis for awarding the Fellowship of the Society. The alterations were approved for publication.

The Law Committee reported that during April inspectors and agents of the Society had visited the premises of 635 authorised sellers and 487 traders.

The Privy Council had approved the amendment to bylaw XXIV (requiring applications for registration of premises to be lodged with the registrar at least twenty-eight days before the applicant intended to practise).

The Ethical Committee minutes, presented by THE CHAIR-MAN (Mr. Tristram), recorded receipt of letters of explanation and apology from two pharmacists whose advertisements in local papers had been the subject of complaint. Another pharmacist had agreed to stop displaying certain merchandise on the pavement in front of his shop.

A long-standing practice in a certain seaside town whereby patients telephoned their doctors for repeat prescriptions, which were then collected from the surgeries by chemists, the patient naming the chemist who should dispense the prescription, was considered. Without wishing to encourage the practice, the Committee expressed no objection in the particular case. The Committee recommended publication of a further statement on the Society's policy on the association of members of the Society with editorial matter and advertisements in newspapers (see p. 585).

Standing Committees

The following were elected to the Standing Committees of the Council, 1964-65:—

BENEVOLENT FUND AND WAR AID; E. A. Brocklehurst, Miss M. A. Burr, T. Heseltine, K. Holland, A. Howells, G. Lowther, J. A. Myers, D. E. Sparshott, H. Steinman.

EDUCATION: J. E. Balmford, Miss M. A. Burr, W. M. Darling, H. S. Grainger, J. B. Grosset, K. Jenkins, W. Lane-Petter, Mrs. E. J. M. Leigh, J. A. Myers, D. E. Sparshott.

ETHICAL: A. Aldington, J. E. Balmford, W. M. Darling, R. Dickinson, J. B. Grosset, K. Jenkins, J. P. Kerr, D. R. Laurence, Mrs. E. J. M. Leigh.

FINANCE AND GENERAL PURPOSES: A. Aldington, J. E. Balmford, E. A. Brocklehurst, R. Dickinson, T. Heseltine, Mrs. E. J. M. Leigh, G. Lowther, D. E. Sparshott, H. Steinman, W. J. Tristram.

LAW: E. A. Brocklehurst, W. M. Darling, K. Holland, A. Howells, K. Jenkins, J. P. Kerr, G. Lowther, J. A. Myers, D. E. Sparshott, H. Steinman.

ORGANISATION: A. Aldington, J. E. Balmford, R. Dickinson, H. S. Grainger, T. Heseltine, Mrs. E. J. M. Leigh, W. J. Tristram.

PUBLICATIONS: A. Aldington, E. A. Brocklehurst, R. Dickinson, T. Heseltine, K. Holland, J. P. Kerr, D. R. Laurence, G. Lowther, W. J. Tristram.

PRACTICE: Miss M. A. Burr, W. M. Darling, H. S. Grainger, J. B. Grosset, K. Holland, A. Howells, K. Jenkins, J. P. Kerr, W. Lane-Petter, S. R. F. Whittaker.

Any Business Questions?

Is it possible to insure the life of a director, a major shareholder of our company, and have the premiums allowed as a deduction in working out our income tax profits? The director concerned is a chemist in charge of our research department.

It has been decided in the courts that where the continuation of the services of a particular director are of great importance to a company such premiums are deductable for income tax purposes. If the director died, the insurance money received would be a taxable receipt.

I have heard that it is proposed to tax so-called "mutual trading" profits. Would that apply to a mutual buying organisation that was selling only to its members?

THERE are provisions in the Finance Bill, 1964, which will result in the charging to tax of the mutual trading activities if they are incorporated bodies. Thus if your mutual buying organisation is a company, any surplus will undoubtedly be taxable if the present proposals become law.

I am thinking of employing my wife in my business. Do I have to pay the full National Insurance stamp for her?

IF you do not wish to pay any contributions for your wife as your employee you need not do so, for a wife employed by her husband is covered by his contributions. You can, of course, arrange for your wife's contributions to continue if you wish, as with any other employee. In certain circumstances that might be advisable, for example where she has paid full contributions in the past it may be the best course in order to retain her right to receive retirement pension in her own right.

A PHARMACIST'S ANTHOLOGY

SURROUNDED BY HIS DRUGS

From "The Haunted Man" by Charles Dickens Who could have seen his hollow cheek, his sunken, brilliant eye; his black-attired figure, indefinably grim, although well knit and proportioned; his grizzled hair hanging like tangled seaweed about his face—as if he had been through his whole life a lonely mark for the chaffing and beating of the great deep of humanity—but might have said he looked like a haunted man? Who could have observed his manner—taciturn, thoughtful, gloomy, shadowed by habitual reserve, retiring always and jocund never, with a distraught air of reverting to a bygone place and time, or of listening to some old echoes in his mind—but might have said it was the manner of a haunted man? Who could have heard his voice—slow-speaking, deep, grave, with a natural fullness and mclody in it which he seemed to set himself against and stop-but might have said it was the voice of a haunted man? Who that had seen him in his inner chamber, part library and part laboratory—for he was, as the world knew far and wide, a learned man in chemistry, and a teacher on whose lips and hands a crowd of aspiring ears and eyes hung daily—who that had seen him there, upon a winter night, alone surrounded by his drugs and instruments and books; the shadow of his shaded lamp, a monstrous beetle on the wall, motionless among a crowd of spectral forms raided there by the flickering of the fire upon the quaint objects around him; some of them phantoms (reflection of glass vessels that held liquids) trembling at heart like things that knew his power to uncombine them, and to give them back their component parts to fire and vapour—who that had seen him then, his work done and he, pondering in his chair before the rusted grate and red flame, moving his thin mouth as if in speech, but silent as the dead, would have said that the man seemed haunted and the chamber, too?

PRESCRIBED AREA: The real trouble [in a "black market" in N.H.S. prescription forms] is that a prescription issued, say, in Kew can be made up in Bow, and the chemist there hasn't a clue if the doctor's signature is a forgery or not. I can see no hardship to patients if prescriptions had to be made up within a limited radius of the doctor's surgery. Nearby chemists could soon spot forgeries, and the racket would stop.—Dr. Goodenough in *Thc Pcople*.

Pharmacy in a Developing Country

OVERCOMING PROBLEMS IN THE SUDAN

THE emergence of modern pharmacy in the Sudan, from its beginnings in a retail shop in Khartoum at the beginning of the century, to the recent formation of the faculty of pharmacy, University of Khartoum, was described by Professor P. F. D'Arcy (dean of the faculty) in an address to the Pharmaceutical Society in London on May 21. Professor D'Arcy, who has been responsible for organising the school of pharmacy, began by outlining the geography of the country, its diversity of climate and vegetation, and its size. Though one of the oldest of present-day African States it was still a relatively young country, having developed under British leadership since the Condominion treaty of 1899. That treaty had been signed after the defeat of the Khalifa at Atbara and Omdurman in 1898, and in the next decade Lord Kitchener had rebuilt the three adjoining cities of Khartoum, Khartoum North, and Omdurman, now the largest cities in the country.

Progress

The history of pharmacy in the Sudan, still fairly recent, was largely confined to retail. The first pharmacy was opened in Khartoum in December 1906 by E. N. Morhig under the name "The English Pharmacy." The event was recorded in the March 9, 1907, issue of The Chemist and Druggist, which published an illustrated article entitled "Interior of the English Pharmacy, Khartoum." The need for such a pharmacy was apparent. After the battle of Omdurman, Khartoum began to be visited by fashionable tourists and they and the officers of the garrison needed medicines and other goods. Morhig's pharmacy, which indirectly started the practice of pharmacy in the Sudan remains, though today as a department in a general store.

Since then more pharmacies had been opened but the present total of about forty remained pitifully small against total requirements and they were badly distributed. Khartoum, Khartoum North and Omdurman had too many, whilst other important towns had none. Of about sixty pharmacists in the Sudan forty-five worked in those three towns. The new Faculty of Pharmacy of the University of Khartoum would in time provide the required number of pharmacists, but legislation would be needed to ensure that new pharmacies would be sensibly distribu-Meanwhile in some areas the Ministry of Health had issued licences for drug stores to be opened by ordinary merchants, who were permitted to sell or supply a limited range of drugs. That arrangement had been made largely self-limiting by the Pharmacy and Poisons Act, 1963.

The first hospital pharmacy department in the Sudan was established in Khartoum hospital only in 1953. Except in that hospital, pharmaceutical services were under dispensers who had graduated from the Ministry of Health's dispensers' training school at

Khartoum hospital. Upon graduation, after a three-year course, dispensers were sent on tours of duty to hospitals in the provinces. The magnitude of the problems of hospital pharmacy were exemplified by the position of pharmacists in Khartoum hospital, a general hospital of 900 or more beds with an attendance of 2-3,000 out-patients per day. The pharmacy department consisted of one pharmacist and his staff of dispensers, for whose training he was responsible.



A Sudanese woman inspecting ampoules.

Until recently all medicines and drugs used in the Sudan were imported, but in 1960 a local pharmaceutical industry had its beginnings in the formation of the Sudanese Chemical Industries in Khartoum, followed shortly by two more companies. three companies had already embarked on an ambitious programme of production despite initial doubts about the ability of a local industry to meet the high standards essential to pharmaceutical products. However, by careful staff training and rigorous quality control that had been achieved. In time the industry would undoubtedly provide a substantial part of Sudanese requirements and would also contri-bute to the economy of the country by exporting to neighbouring countries. In fact some exports had already been made to Saudi Arabia and Eritrea.

Recommendations by a Commission

In 1950 a commission composed of Professor W. H. Linnell (dean, School of Pharmacy, University of London), Dr. L. G. Goodwin (a director, Wellcome Laboratories of Tropical Medicine) and Professor Amin F. Haddad (director, School of Pharmacy, American University of Beirut, Lebanon) visited the Sudan at the request of the University of Khartoum and the Ministry of Health to examine the possibility of instituting pharmaceutical education in the Sudan. The commission recommended forming a school of pharmacy within the faculty of medicine, University of Khartoum, and the report had been adopted. Professor D'Arcy had been invited to become the director and professor of pharmacology of the school. He arrived in Khartoum in June 1962 charged with inaugurating the new school, planning

its buildings, recruiting staff and ordering equipment. He was also asked to prepare drafts of the academic curriculum and the regulations for the new degree of Bachelor of Pharmacy (Khartoum). After carrying out a survey of the status of pharmacy in the Sudan, he decided that the school had to be designed to provide, in order of priority: A course of basic training for the future general practitioner of pharmacy together with specialist studies in the final years for students wishing to enter industry; a course of research or research methods leading to higher degrees for those students who would eventually form the nucleus of the Sudanese academic staff of the school—a number of pharmacists who had recently graduated from Cairo, Alexandria or Beirut had applied to join the academic staff as research assistants; it was apparent, therefore, that post-graduate training had to commence at the same time as undergraduate teaching, and that had led the University to institute degrees of Master of Pharmacy and Doctor of Philosophy in pharmaceutical subjects, and finally a series of lectures, discussions and symposia to serve as a refresher course for pharmacists already in practice. Those had commenced in January 1964, the first symposium being entitled: "Pharmacy in the Sudan"; ten papers had been pre-; ten papers had been presented by pharmacists on the various aspects of pharmaceutical practice in the Sudan and, judged by the attendance, discussion and support given, the symposium had been a great suc-The proceedings were shortly published. In order to retain administrative independence, said Professor D'Arcy, the school had had to separate from the faculty of medicine and that was achieved in 1963. The sister faculties of medicine and pharmacy would now work as a composite unit. Medical and pharmacy students would share the same hotel accommodation and would have many joint lectures and practical classes, especially in the junior years. They would have joint use of the library of the faculty of medicine, which had been enlarged to provide space for a pharmacy section. It was felt that mingling embryo pharmacists with embryo doctors would do much to aid the correct development of pharmacy in the Sudan. Students often learnt more from each other than from their tutors.

First of the New Students

The first students had joined the faculty of science in 1953 to study for their preliminary year. Selected students would join the faculty of pharmacy in August 1964 and study for four years for the degree. Great interest had been shown and pharmacy was now second only to medicine in order of popularity. It was intended also to enrol a number of mature students — mainly dispensers — who, though qualified to enter the University, had not previously had the oppor-



Khartoum's first pharmacy. Reproduced from a picture published in THE CHEMIST AND DRUG-GIST, March 9, 1907.

tunity to qualify as pharmacists. Those candidates would be exempt from the preliminary year in the faculty of science and allowed direct entry to the normal course of four years.

In place of a year of pupilage students would be required to complete a period of practical experience during their academic course, working at least six weeks during each long vacation in an approved retail or hospital pharmacy or in an industrial pharmaceutical laboratory. Thus a minimum of twenty-four weeks' practical experience would be gained and until pharmacists were more readily available, the Central Board of Public Health (the licensing authority for pharmacists) was prepared to accept the scheme.

Temporary Accommodation

Owing to building delays classes would commence in temporary accommodation: In view of the urgent need for pharmacists, it was thought advisable not to delay the preliminary intake until the new buildings were completed. Passing to his responsibilities in teaching pharmacology to medi-cal and veterinary students, Professor D'Arcy said he had been able to introduce some new features. Pharmacology was taught in the clinical years, and was replaced by combined therapeutics and pharmacology lectures in the final year. An often forgotten fact was that pharmacology was the basis of thera-peutics, and indeed was the only reason for teaching pharmacology to medical students. In many medical schools too much emphasis had been placed on demonstrating the effects of less important drugs on isolated tissues and on species of animals giving responses totally different from those obtained in man. Students had had to memorise long lists of drugs and their actions without fully understanding their clinical importance or, indeed, the relationship, structural or otherwise, between allied groups of drugs. Often the student was ignorant of new drugs and developments in therapy. An at-

tempt had been made to avoid that by bringing the therapeutics of the drug into early lectures and by encouraging students, during their clinical studies, to see for themselves the use of the drug in practice. Students were familiarised with the proprietary preparations in current use and it was ensured that the trade names were as well known as their official equivalents. Students were given a short course of dispensing in the hospital pharmacy and were allowed under supervision to dispense for patients. Visits had been arranged to the local pharmaceutical industry to show the manufacture and control of the drugs. Films provided by the pharmaceutical industry were shown and encouragement was given to students to take a specific interest in the new drugs that they would eventually use. In the final year the medical students had joint therapeutic-pharmacology lectures, in which the professor of medicine (Professor H. V. Morgan) dealt with general methods of treat-ment, and Professor D'Arcy dealt with the pharmacology of the drugs recommended.

Basis of Pharmacology Teaching

With pharmacy students the approach would be different. Pharma-Pharmacology would be taught with the drug as the object of importance and, though an attempt would be made to give students a working basis of therapeutics, the object of the procedure would not be lost sight of, namely to make the pharmacist the expert on pharmacology of drugs, not on therapeutics. Pharmacy students would, however, be encouraged to take part in ward rounds and clinical demonstrations to gain some measure of insight into the clinical use of drugs. On the subject of pharmaceutical legislation, Professor D'Arcy alleged that the Pharmacy and Poisons Act, 1963, which repealed and re-enacted the Pharmacy and Poisons Ordinance of 1939, had done much to define the practice of pharmacy in the Sudan. That Act was largely based

upon British law and in some circles mild criticism had been expressed that it did not take into account the rather different conditions of the Sudan. The Act had resolved many anomalies and had clarified the registration of pharmacists, the licensing of pharmacies, and the sale and supply of poisons and Dangerous Drugs; the Act also provided for disciplinary action against those who infringed its provisions. That, of course, was different from Britain, where the Pharmaceutical Society was responsible for discipline over the professional activities of its members. In the Sudan, the Pharmaceutical Society was still in the process of formation; an association of pharmacists had been attempted in 1955, but it had not such ceeded owing to the small number of members. In 1962, the idea had of members. In 1962, the idea had been revived and, after several preliminary meetings, a constitution had been drafted. That had been submitted to the appropriate authority for approval, and it was hoped that the Society would soon take its place in the control of pharmacy in the Sudan. The formation of the Society was the key to the future of pharmacy in the country.

In the future one might look forward to the complementary rôles of the society and the faculty, the first controlling the practice of the profession and the latter supplying the members. Pharmacy in the Sudan was an infant with great potentialities. It showed every sign of steadfastly grow-

ing to maturity.

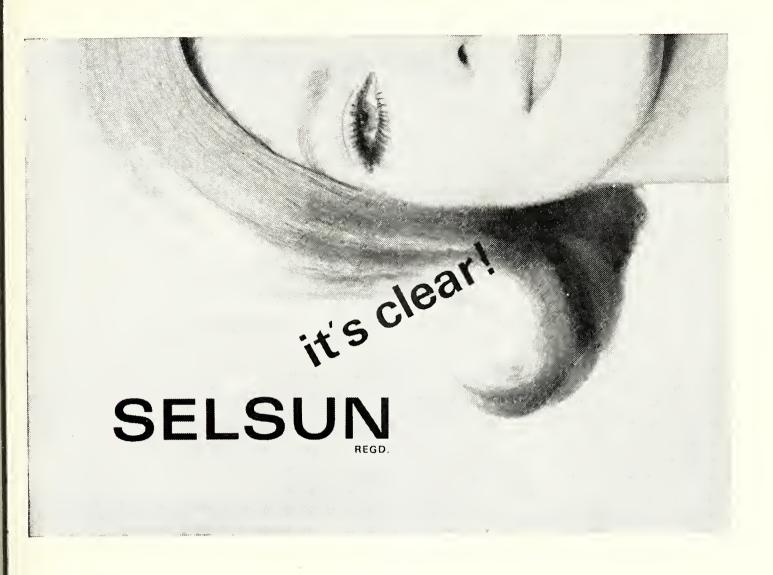
Pharmacists in Medical Teaching

Thanking Professor D'Arcy for his lecture. Professor Linnell recalled that the commission of which he had been a member had recommended that pharmaceutical chemistry and pharmacology should be taught to both medical and pharmaceutical students by staff having a knowledge of pharmacy rather than by "pure" scientists. Despite financial difficulties the Sudanese Government had undertaken fully the development of pharmacy in the country. Professor G. A. Buttle spoke highly of the achievements of Professor D'Arcy in face of the delays inevitable between indenting for and receiving equipment.

Answering a questioner, PROFESSOR D'ARCY said the new building had so far cost £137,000, exclusive of equipment and staff which, with most of the third year's budget spent, had so far taken £35,000. A further £159,000 would, he estimated, be needed to com-

plete the building.

MR. D. N. LEHRER asked whether investigations into Sudanese crude drugs had produced results. Professor D'Arcy replied that knowledge of Sudan's drugs had passed from father to son for generations, and it was likely that only the good had survived. The advice given him by Professor Buttle had been "There are some good doctors in the Sudan. Don't try and fight 'em—join 'em." Medicine, he pointed out, had "begun" in the Middle East. Closing the meeting, Professor LINNELL suggested that more might be gained from investigating crude drugs, than from applying theoretical considerations of chemotherapy.



(SELENIUM SULPHIDE SUSPENSION, ABBOTT)

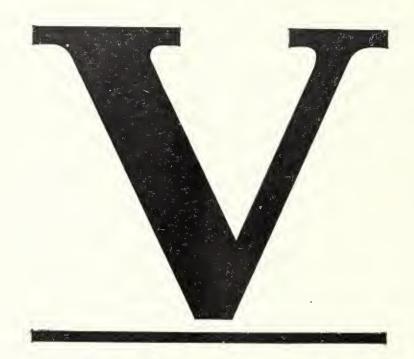
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NATIONAL PHARMACEUTICAL UNION

Meeting of Executive Committee

THE N.P.U. Executive Committee met in London on May 27, Mr. J. O. Bond in the chair.

The meeting agreed to circulate to members, with an explanatory note, copies of a letter from the Proprietary Articles Trade Association about the resale price maintenance defence fund appeal. It was felt important that individual members should support the

appeal.

A verbal report on a meeting of the employers' side of the National Joint Industrial Council for Retail Pharmacy, held on May 6, and of the meeting of the full Council that followed, was presented. Agreement had been reached on all but one minor point and the revised scale for unqualified employees would be published when that had been settled. The following were appointed N.P.U. representatives on the Council: Messrs. J. E. Davey, A. Howells, H. G. Moss, C. H. Smith and W. T. Rees. The retiring members (Messrs. A. Aldington, H. B. Coulson and T. Heseltine) were thanked for the work they had done on the Council.

A suggestion that N.P.U. members

should use the N.P.U. symbol on their envelopes and stationery was discussed. It was decided to continue the present policy of restricting the use of the symbol to official publications.

It was agreed to make an approach to the National Chamber of Trade suggesting joint representations through that body to the three political parties about compensation paid in compulsory purchase orders, etc., and in particular about the situation that had arisen because many local authorities were failing to exercise their right to make discretionary payments as compensation to business people displaced from premises in which they had "legal" interest.

Training of Assistants

The Executive received the report of a small subcommittee that had been appointed to consider the training of assistants for retail pharmacy, including training in dispensing. The subcommittee, with representatives from the company Chemists' Association and Cooperative Union, had reached agreement on a number of proposals on general principles that were agreed and approved by the Executive. It was decided to investigate the possibility of providing a training course, leading to an examination, specifically designed for assistants working in retail pharmacy. All bodies representing interests in retail pharmacy were envisaged as working together on the proposals.

Presenting a report on the Birmingham staff training conference Mr. C. H. Smith said that it had been most successful, with ninety-five members of staff and proprietors present at the afternoon session. Provisional arrangements were approved for four further such conferences in 1965 at Leeds in January; in South London early in February; in Liverpool early in March; and in Newcastle in May). A number of Branch meetings were being held

during the autumn of 1964 in conjunction with those conferences, and it was hoped also to arrange at least two experimental small-scale conferences each based on a single branch.

MR. SMITH also presented a report on the work of the Local Organisations Committee. Work was in hand on preparing a panel of speakers to address Branch meetings. Notes for guidance of Branch secretaries would be circulated shortly. It was decided to consider amalgamating many of the smaller N.P.U. Branches into larger units.

Marketing Policy

A meeting of the Marketing Policy committee held on May 26 was reported on by Mr. G. T. M. David, who had been re-elected as Chairman for the year. Among matters discussed was the direct dispatch of N.P.U.-sponsored Nu-soft toilet rolls and tissues to members from the manufacturer. Increasing volume of business had made that possible and from June 1 orders so sent would be subject to discount terms of $7\frac{1}{2}$ per cent. on 20-case mixed orders. Sales of the rolls in the first quarter of the year were 40 per cent. up on the corresponding period of 1963, and it was hoped the quantity terms would en-courage more members to stock and sell Nu-Soft products. Members could look forward to information about possible bonus terms. With the co-operation of the marketing-policy panel a packaging survey of N.P.U.-sponsored products had been completed, and discussions with suppliers on appropriate modifications had taken place. More manufacturers were wanting to take part in the joint display scheme. Advertising costs are heavy, and substantial sales of products were needed to meet them. Sales could be increased by appropriate counter and window displays, and manufacturers were producing first-class display material. Nearly 6,500 retail pharmacists were now co-operating, and the likely abolition of resale price maintenance made it important for all members to take advantage of ways of promoting sales.

Throughout the year consideration had been given to problems of distribution. The Committee had again been asked to consider a proposed window display competition during the winter 1964/65. The Committee had not found it possible to recommend members to take part in one particular display scheme because the medicinal products to be displayed were available through outlets other than pharmacies. The Executive's view was that medicines should be available to the public only

through pharmacies.

Action on Branch Resolutions

The Executive approved a report on implementing resolutions from Branches. It drew the attention of Branch secretaries to the Preston resolution "That this Branch deprecates the action of the Nottingham District Branch in sending their letter and resolution to all Branch secretaries." The Committee's view was that resolutions from Branches should be sent to the Executive direct. to area meetings, or to meetings of N.P.U. Branch representatives. and that indiscriminate circulation to other branches was undesirable.

Appropriate actions were agreed on to resolutions from the Branch meetings at Mexborough on April 10, Somerset on April 23, Oldham on April 27, Leeds on April 30, Swansea on May 6,

and Sunderland on April 23.

MANUFACTURERS' ACTIVITIES

To Be Produced in England. — A factory for the manufacture of Jiffy padded bags (giving protection against transport vibration) in fourteen sizes, has been established by Jiffy Packaging Co., a division of J. & W. Baldwin Group, at Industrial Estate, Winsford, Ches. Previously the bags had been manufactured only in America and Germany.

Long Service Rewarded.—Two new names were recently added to the list of long-service employees of The British Drug Houses, Ltd., when, on May 27, Mr. F. W. Griffin (managing director) presented fifty-year awards to Messrs. S. Bartlett and G. Waller. Mr. Bartlett, who received a television set, had two brothers employed by the company until their deaths five years ago. The family's combined service amounts to 135 years. Mr. Waller, who chose a gift of premium bonds, is one of two brothers whose combined service is almost 100 years.

Appropriate Send-off. — Fruit barrows from Covent Garden, peaches flown in from Belgium, oranges from South Africa, and strawberries from the Continent provided the background to a launching party at the Theatre Royal, Drury Lane, on June 2 for the new strawberry, orange and peach

creme lipsticks in the Rouge Baiser range. The lipstick is being introduced to viewers on London's Television from June 8, and model Tania Mallett, who performs the introduction, was present at the reception. Welcoming the guests Mr. R. J. W. Grieve (director



Tania Mallett as she nppears in Rouge Baiser television film in London area.

of Warrick Brothers, Ltd., Tile Hill, Coventry, distributors of the product) described the careful market research that went into the new look for the Rouge Baiser cases (see C. & D., May 30, p. 548), and gave details of the scheme of television programmes and of the company's prize competition for assistants.

TRADE REPORT

The prices given are those obtained by importers, or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JUNE 10: QUASSIA is virtually unobtainable on the spot and a further two months is expected to elapse before new supplies come for-Spanish AGAR is unobtainable except against existing contracts. Other Spanish produce difficult to obtain by way of replacement are SAFFRON and Canary Isles Cochineal. Small parcels of Chinese spot RHUBARB have been almost cleared as a result of increased activity. Buchu was inclined to be firmer at origin. In SEEDS, Indian CELERY is firmer for shipment on account of reports that the crop has been damaged. Indian FENNEL is now being quoted at 160s. for shipment.

A number of Essential Oils are becoming scarce on the spot, among them DILL, CARAWAY, Seychelles CIN-NAMON LEAF and JUNIPER BERRY. ROSE-MARY was firm at 12s. 6d. per lb. (up 1s. 6d.). Spanish EUCALYPTUS, though threepence per lb. down on the spot tended to be firmer at origin.

In PHARMACEUTICAL CHEMICALS, SO-DIUM CARBONATE, B.P.C., exsiccated, was higher by £10 per ton.

Pharmaceutical Chemicals

ACETANILIDE. — Crystals, one-cwt. lots, 2s. 10d. per lb.; 5-cwt., 2s. 9d.

Adrenaline.—(Per gm.). Synthetic B.P., 1-kilo lots, 11d.; 500 gm., is 1s. 1d. acid tartrate, B.P., 1 kilo, 7½d.; 500 gm., 9d.

ALOIN. — Micro-crystalline, 14-lb. lots, 34s. per 1b.

Ammonium acetate. — Kegs (70-kilos), B.P.C. 1949, 8s. 1d. per kilo. solution, strong, 3s. 6d. kilo.

ANTIMONY SALTS. — CHLORIDE, SOL., B.P.C., 1934. carboys, 5s. 7d. per kilo; FLAKE, 14s. 4d. kilo.

Arecoline.—Alkaloid, 51s. per oz.

BACITRACIN. — Sterile topical is 53s. per mega unit for 25 m.u.

BENZYL BENZOATE. - B.P. in 1-ton lots, 4s. 6d. per lb.

BISMUTH SALTS.—Prices (per kilo):

Quantity		5 12		50)	250			
		5.	d.	5.	d.	5.	d.		
CARBONATE		45	3	44	0	43	0		
CITRATE		50	0	1 –	-	<u> </u>			
OXIDE*		60	6	-	-	1 —			
SALICYLATE		44	6	43	6	-	_		
SUBGALLATE		43	6	42	6	_	_		
SUBNITRATE		40	9	39	8	38	8		

*12.5 kilo lots.

BORAX.—B.P. grade, 1 ton and upwards: Granular, £54 10s.; crystals, £58; powder, £59; extra fine powder, £60 per ton, all in hessian sacks. Less £1 for paper bags. Commercial from £44 10s. to £51 per ton as to type and packing. Anhydrous borax is £60 per ton in hessian bags or £59 in paper bags; carriage paid in Great Britain, Surcharges for small quantities: Less than 1 ton but not less than 10 cwt., 2s. per cwt.; 5 to 9 cwt., 4s.; 1 to 4 cwt., 8s.

BROMIDES—Crystals (per th):

Bromides.—Crystals (per 1b.):—

		1 cwt.	5 cwt.
POTASSIUM	 	s. d.	s. d.
SODIUM	 •••	2 6	2 5
AMMONIUM	 •••	$\bar{2} 10$	2 81

Powder is three-halfpence per lb. more, packages free, carriage paid terms.

CHLOROCRESOL.—Pharmaceutical quality, 7s. 7d. per lb. (1-cwt. lots).

Chloroxylenol. — B.P.C., 5s. 8d. per lb. for 1-cwt. lots; 5s. 3d. per lb. for 1-ton

CITRATES.—Per kilo:—

	1	50 1	kilos	250	kilos	[1,000 kile			
SODIUM†		s.	d.	S.	d.	S.	$\frac{d}{\circ}$		
Potassium†	***	5	7	5	1	4	II		
JRON AND AMMONIUM*		8	10	8	6	8	3		

†Powder 6d. more. *Scales 1s. 10d. per kilo more.

Cresol.—B.P. quality, 7s. 9d. per gall. in 5-gall. lots.

CYCLOBARBITONE.—Under 25 kilos: B.P., 73s. per kilo. CALCIUM, 80s. per kilo.

DICOPHANE. (DDT). -- One-ton lots, 2s. $4\frac{1}{2}$ d. per lb.

EPHEDRINE.—ALKALOID nominally 6s. 6d. per oz. Sulphate, 4s. 6d. and hydro-chloride, 3s. 4d. per oz. Scarce.

ERGOTOXINE. — ETHANESULPHONATE, 10-gm. lots, B.P. '32. 60s. per gm. B.P.C. '49,

FORMALDEHYDE.—B.P. solutions, 5-drum lots, 690s. per ton, delivered.

GLYCYRRHETINIC ACID.—Per oz., 50s.

GUAIACOLS. — LIQUID B.P.C., 16s. per lb., for 1-cwt. lots; CRYSTALS, 15s. 9d.; CARBONATE, 18s.

- B.P., 1s. 6d. per lb HEXAMINE. -1-ton lots, delivered in 1-cwt. bags. Technical is 1s. 5d. per lb.

HYDROCYANIC ACID.—Dilute B.P.C. 1954, from 4s. to 4s. 7d. per litre, as to quantity; Scheeles' from 4s. 9d. to 5s. 4d.

IODINE.—Resublimed in less than 50-kilo lots, 30s. 6d. per kilo; 50 kilos and over, 29s. 9d. Minimum delivered rates for CRUDE is 18s. 7d. per kilo.

IODOFORM.—Powder (per kilo), 55s. 3d. in 50-kilo lots; less than 50-kilos, 56s. 9d. Crystals are 6s. 6d. per kilo more.

PARAFFINS. — Prices to wholesale distributors per gall.—Liquid: HEAVY, B.P., in drums, 8s. 8½d. to 8s. 9½d. as to quantity: over 500 gall. in bulk, 8s. 7½d. Light, B.P., drums, 7s. 1½d. to 7s. 2½d.; bulk, 7s 0½d. Technical white: LIGHT, 6s. 6d. to 6s. 7d. and 6s. 3d. in bulk; MEDIUM, 7s. 7d. to 7s. 8d., bulk, 7s. 4½d. Drums charged and returnable. Soft: Best grades White medium consistency, £116 15s, per charged and returnable, Soft: Best grades White medium consistency, £116 15s, per ton and soft consistency, £113 7s. 6d. Yellow, £94 10s. Other grades (all B.P.) at £95, £100 10s., £106 per ton for white and at £74 17s. 6d. for yellow. All in non-returnable drums delivered.

PARAFORMALDEHYDE.—B.P.C. is 1s. 3d. per lb. for 1-ton lots; 1s. 5d. per lb. for

Paraldehyde. — B.P. in 12-winchester lots, 2s. 10d. per lb. (6s. 3d. kilo); 10-gal¹. carboys, 2s. 4d.

PHENACETIN.—B.P. one-ton lots, 6s. 3d. per lb.; 1-cwt., 6s. 9d.

PHENAZONE.—Imported, 9s. 6d. per lb.

PHENOL.—Ice crystals in bulk, 1s. 4d. per lb. Liquid, B.P., 1s. 9d. per lb. in 56lb. returnable tins.

PHTHALYL SULPHATHIAZOLE. - Five-kilo lots, 31s. per kilo.

PHYSOSTIGMINE.—Per oz. for 4-oz. lots: ALKALOID, 476s.; SALICYLATE, 321s.; SUL-PHATE, 411s.

PICROTOXIN.—Per oz. 45s. 6d. (4-oz.).

PILOCARPINE.—In 1-kilo lots prices are: hydrochloride, 1,498s. per kilo; nitrate, 1,251s. 6d.

PIPERAZINE. — Less than 50 kilos are: ADIPATE, 19s. 3d. per kilo; CITRATE, 18s. 6d.; HEXAHYDRATE, 13s. 3d.; PHOSPHATE, 20s. 6d.; TARTRATE, 19s. 6d.

RESORCINOL.—One-cwt, lots, 12s. 4d. lb. RIBOFLAVINE.—One kilo, 210s.

ROCHELLE SALT.—Powder or granulated, 5-cwt. lots or over in kegs, 220s. per cwt.; 1-cwt. 222s. 6d. (bags less 5s.).

SODIUM CARBONATE.—(Per cwt.), B.P.C. exsiccated, 1-cwt., 90s.; 5-cwt., 85s.; 1-ton, 80s.

STRYCHNINE, — 100-oz. lots; alkaloid, 12s. per oz.; sulphate and hydrochloride, 10s. 6d.

THEOPHYLLINE.—12½-kilo lots; ALKALOID ANHYDROUS, 32s. 3d. per kilo and B.P., 33s. 3d.; AMINOPHYLLINE, 29s. per kilo, 33s. 3d.; AMINOPHYLL $12\frac{1}{2}$ kilos, 31s. per kilo.

ZINC CARBONATE.—One-cwt. lots, 2s. $0\frac{1}{2}$ d. per lb.; 1-ton, 1s. 9d.

ZINC CHLORIDE. — B.P.C. 1954, cake, 15s. 8d. per kilo; sticks, 17s. 3d.

ZINC PEROXIDE, - One-cwt. lots of B.P. 5s. 3d. per 1b.

Crude Drugs

ACONITE. -- Spot, Spanish napellus, 2s. 8d. per lb.

ALOES. — Primes, 250s. per cwt. spot. Extra primes, 245s., c.i.f. for shipment. Curação, spot, 275s.

ANISE. - Chinese STAR, 160s. per cwt. spot, duty paid; f.a.q. for shipment, 115s.,

BALSAMS. — Per 1b.: CANADA: Spot 18s. 6d. to 23s. 6d. 'COPAIBA: B.P.C. grade 10s. Peru: Spot, 9s. 3d. Tolu: B.P., from 11s. to 30s.

BUCHU. — Spot value, 4s. 9d. per lb.; shipment, 4s., c.i.f.

CALAMUS. - Root, 100s. per cwt., spot, 87s. 6d., c.i.f.

CAMPHOR.—B.P. powder spot, 5s. 8d. in bond; shipment, 5s. 4d. per lb., c.i.f.

CARDAMOMS.—Aleppy greens, 9s. 3d. to 9s. 10d. spot; shipment best grade, 10s. 8d., c.i.f. Seeds, spot, 12s. 6d.; shipment, 12s., c.i.f.

CASSIA.—Fistula, 105s, per cwt. landed; lignea (whole), for prompt shipment, 190s., c.i.f.; selected broken, 180s., c.i.f.

CHILLIES. — Zanzibar, nominally 240s. per cwt. spot; shipment, 215s., c.i.f. Mombasa spot, 172s. 6d.; shipment, 150s., c.i.f.

CINNAMON. — QUILLS, Ceylon (per lb., c.i.f.): 4 O's, 9s. 11d.; single O, 7s. 3d.; quillings, 5s. 5d. Bark, Seychelles, 90s.

CLOVES. — Zanzibar spot 2s. 101d. per 1b. standard grade; shipment, 2s. 7d., c.i.f.

COCHINEAL. — For shipment, silver-grey Canary Isles, 22s. 6d. per lb., c.i.f. and 26s. spot; black-brilliant, 30s., c.i.f. nominal. Peruvian, 15s. 6d. per lb., spot.

COLOCYNTH PULP.—Supplies of the new crop are still awaited.

ELEMI. — Spot, 1s. 9d. per lb.; shipment, not offering.

Ergot. — Portuguese, 8s. 3d. per lb. spot and 8s., c.i.f.

GENTIAN.— Spanish root 175s, per cwt. spot; French for shipment, 180s., c.i.f.

GINGER.—(Per cwt.) African, spot, 310s. per cwt.; shipment, 280s., c.i.f. Jamaican No. 3 spot, 675s.; new crop, June, 600s., c.i.f. Cochin spot, 355s. Shipment, 362s. 6d., c.i.f.

HENNA. — Indian, for shipment, 65s.,

Honey. — (Per cwt.). Australian light amber, 152s. 6d. to 157s. 6d. and medium amber 147s. 6d. to 152s. 6d. Argentine, 150s. to 155s.; Canadian, 185s. to 190s.; Mexican, 140s. to 145s., all ex warehouse.

IPECACUANHA.—Matto Grosso for shipment, 61s. 6d. per lb., c.i.f. and spot from 65s. to 67s. 6d. as to test. Colombian, 66s., c.i.f.; spot, 68s. Costa Rican is firmer at 94s., c.i.f., and 96s. 6d., spot.

KARAYA. - No. 1 gum, spot, 400s.; No. 2, 335s. per cwt.

Kola Nuts. — African 5½d., c.i.f. (per lb.). Short. African, 6d. spot and

Lanolin. — Aniiydrous B.P. is from s. $8\frac{1}{2}$ d. to 1s. $10\frac{1}{2}$ d. per lb. in 1-ton lots delivered free drums.

Lemon peel.—Spot, 2s. 3d. per lb.; partially extracted, 1s. 6d.

LINSEED. — Whole, 72s. 6d. per cwt.; crushed, 110s.

LIQUORICE. — Natural root: Russian 65s. per cwt.; Anatolian, 60s.; Anatolian decorticated, 170s. Block juice; Anatolian, 192s. 6d. per cwt.; Italian stick from 400s. to 475s. per cwt.

MACE.—Whole pale blade, 14s. 6d. per lb. on the spot. Shipment, 14s. per lb.

MENTHOL.—Chinese: spot, 27s. 6d. per lb., duty paid; June–July shipment, 26s.; September–October, 25s. 6d., c.i.f. Brazilian, 22s. 6d. to 24s., in bond and shipment, 23s. to 23s. 6d., c.i.f., as to grade (receller's price) (reseller's prices).

MERCURY.—Spot, ex warehouse £90 per flask of 76 lb.

Nux vomica.—Cochin, 75s, per cwt. on the spot; shipment, 47s. 6d., c.i.f

Orange peel. — Spot: Sweet ribbon. 1s. 8d. per 1b., bitter quarters: West Indian, 10½d.; Spanish, 1s. 6d.

PAPAIN.—E. African for shipment, 35s..

PEPPER.—White Sarawak spot, 2s. 9d. to 2s. 11d. per lb.; shipment, 2s. 8\frac{1}{4}d., c.i.f. Black Sarawak spot, 2s. 6d.; shipment, 2s. 2\frac{1}{4}d., c.i.f. Black Malabar is 322s. 6d. per cwt., c.i.f.; 340s., spot.

Podophyllum.—Spot per cwt.: Emodi, 230s.; Peltatum, 210s.

PYRETHRUM. — Extracts — partially dewaxed, 25 per cent. pyrethrins, 69s. to 65s. 6d. per lb.; pale 82s. 6d. to 79s.; crude oleoresin, 60s. 6d.

QUASSIA.—Supplies virtually unobtain-

SAFFRON. — Mancha superior, 260s. per lb., spot.

SARSAPARILLA. — Jamaican native red spot, 3s. per lb.; shipmeent, 2s. 9d., c.i.f. nominal.

SASSAFRAS. — Brazilian is from 2s. 4d. per lb.

SEEDS. — (Per cwt.). ANISE. — Spanish, 225s., spot, duty paid. CARAWAY.—Dutch, 157s. 6d., spot, duty paid. CELERY.—Indian, 147s. 6d., spot, quoted; shipment, July-August, 140s. c.i.f., paid. CORIANDER.—Moroccan, 55s., duty paid; new crop for June-July shipment quoted at 43s., c.i.f. CUMIN. — Moroccan, 210s., Iranian, 230s., both spot, duty paid; shipment, Moroccan new crop for June-July, 150s., c.i.f., quoted. DILL.—Indian, 90s., spot; shipment, 80s., c.i.f. FENNEL.—Indian, spot, 150s.; shipment, 160s., c.i.f., SEEDS. — (Per cwt.). ANISE. spot; shipment, 80s., c.i.f. FENNEL.—Indian, spot, 150s.; shipment, 160s., c.i.f., now quoted. FENUGREEK. — Moroccan, 49s., duty paid; shipment, 36s., c.i.f., quoted. MUSTARD.—English 45s., to 65s., according to english. cording to quality.

SENNA. — (Per lb.). Tinnevelly LEAVES spot: Prime No. 1, 2s. 3d.; prime No. 2, 1s. 9d.; No. 3, f.a.q. spot, 1s. 4d. Shipment, dry crop, 1s. 1½d., c.i.f. Pods: handpicked: Tinnevelly, 3s. 2d.: manufacturing, 2s. spot; shipment, 1s. 9d., c.i.f. Alexandria Pods: hand-picked scarce with only odd lots at prices according to grade: manufacturing, 3s.

SHELLAC. — F.O.T.N., 185s. per cwt., No. 1, 192s. 6d.; F.O., 215s. to 275s.

STRAMONIUM. — Continental LEAVES 85s. per cwt. spot.

Tonquin Beans.—Para, spot, 4s. 9d. per .; shipment, 4s. 3d., c.i.f.; Trinidad, 5s. 6d., spot.

Tragacanth. — No. 1 ribbon, £190 to £195 per cwt. No. 2, £180, spot.

TURMERIC.—Madras finger now landing quoted at 175s. per cwt., landed terms. June shipment, 130s., c.i.f.

VALERIAN ROOT. — Spot: East European, 175s. per cwt.; Indian, 175s. Shipment: Continental, 172s. 6d. to 214s., c.i.f.

Vanillin.—Rates (per lb.) are now: 5-cwt. lots, 21s. 6d.; 1-cwt., 21s. 9d. 56-lb., 22s.; small quantities, 22s. 6d.

Waxes. — (Per cwt.): Bees'.—Dar-es Salaam, spot, 455s.; shipment, 440s., c.i.f. Sudanese, spot, 395s., in bond; shipment, 395s., c.i.f. Candelilla, spot, 465s.; forward, 460s. landed. Carnauba, fatty grey, spot, 305s.; shipment, 305s., c.i.f.; prime yellow, spot, 755s.; shipment, 755s. 755s., c.i.f.

WITCH HAZEL LEAVES.—Spot quotations are 2s. 4d. per lb.

Essential and Expressed Oils

ALMOND.—Imported sweet oil is 7s. 3d. per lb., spot.

AMBER.—Rectified on the spot, 2s. per

ANISE.—Chinese, 11s. 3d. per lb., spot; shipment, 9s. 9d., c.i.f.

BAY.—West Indian about 25s. per lb. on the spot.

BERGAMOT.—Spot about 8s. per lb.

BIRCH TAR.—Rectified, 8s. per lb.

Bois DE ROSE.—Brazilian, 19s. 6d. per lb. on the spot; shipment, 18s. 6d., c.i.f. BUCHU.—Spot, 360s. per lb.

CADE.—Spanish from 1s. 9d. per lb. for drum lots.

CAJUPUT.—Spot, from 9s, per lb.

CALAMUS.—Spot, Indian, 95s. per lb. as to source.

CAMPHOR, WHITE. — Chinese, 2s. 6d. duty paid, per lb.; shipment, 1s. 10d., c.i.f.

Cananga.—Spot, 27s. 6d. per lb.

Caraway.—Imported oil is about 40s. per lb.; English, 60s.

CARDAMOM.—Indian from 225s. per lb., spot.

Cassia.—Spot, 35s. per lb.

Castor.—Home produced B.P. oil, spot, £143 per ton naked ex mill (2-ton lots).

CEDARWOOD, — Rectified 6s. per lb. on the spot.

CELERY SEED. — Quotations are from 116s, per lb.

CHAMOMILE.—Small lots 640s. per lb.

CHENOPODIUM.—About 40s. per lb. in original containers.

CINNAMON.—Best English-distilled, 720s, per lb.; other B.P. oils from 22s. to 120s. per lb. Ceylon leaf, 13s.; Seychelles from 8s., spot.

CITRONELLA. — Ceylon spot, 11s., shipment, 10s. 9d. per lb., c.i.f. Formosan, 5s. 6d. in bond; June–July shipment, 5s., c.i.f.; Chinese, 5s. 6d., in bond, 5s., c.i.f.

CLOVE.—Madagascar leaf spot, 7s. 4½d. per lb., duty paid; shipment, 6s. 4d., c.i.f. RECTIFIED 87–88 per cent., 12s. Distilled bud-oil, ENGLISH: B.P., 26s. per lb. for 1-cwt. lots.

COD-LIVER, — B.P. in 45 gall, drum is 11s. 6d, per gall, including 30s, deposit on drum. Veterinary is from 9s, 6d, per gall, 25-stone lots, Delivered terms.

CORIANDER. - Russian oil, from 34s. to 40s. per lb., spot.

CUBEB.—Spot supplies of imported are 85s. per lb.

CUMIN.—English distilled oil, 130s. per lb., imported, 90s.

DILL. — Supplies short. Impo about 40s, per lb., spot, for Dutch. Imported is

EUCALYPTUS. — B.P. 70-75 per cent., 6s. per lb.; 80-85 per cent., 6s. 9d.

FENNEL.—Spanish sweet, spot, 13s. per lb.

GERANIUM. Bourbon, 87s. 6d. to 92s. 6d. per lb. on the spot.

GINGER. — Imported: Indian, 150s. per lb.

GRAPEFRUIT.—Spot offers from 15s. 6d. per 1b.

JUNIPER. - B.P.C. is nominally 30s, per lb. JUNIPER WOOD, from 5s.

LAVANDIN.—From 20s, to 27s, per lb. as to quality.

LAVENDER.—Spot, 25s. to 35s. per lb. as to quality.

LAVENDER SPIKE. — Firm. 17s. to 19s. per lb.

LEMON.—Spot from 21s. to 32s. per lb. Lemongrass.—Spot, 10s. per 4b.; shipment, 8s. 9d., c.i.f.

Lime. — West Indian distilled 58s. per

lb. on the spot.

NUTMEG.—East Indian B.P. oil is about 45s, per lb. English distilled, 65s.

OLIVE. — Spanish, £185 to £195 per metric ton f.o.b. Spanish port: French, £220 c. and f., London nominal. Spanish oil on the spot, £230-£240 per long ton ex wharf, duty paid.

Orange.—Floridan sweet oil, 6s. to 7s. per lb. West Indian, 10s.; Spanish, 15s. to 17s. 6d.

-Shipment, 52s. 6d. per lb. PALMAROSA c.i.f.; spot, 60s.

PATCHOULI.—Penang is 20s. duty paid and 16s. 6d., c.i.f., per lb.

PENNYROYAL. — Spot, 12s. 6d. per 1b. duty paid.

PEPPERMINT. — Arvensis: Chinese spot, 8s. 9d. shipment, 8s. 7½d., c.i.f Brazilian spot, 8s. 6d.; shipment, 8s. 4½d., c.i.f. Piperita: Italian, 48s. to 70s., spot; American from 31s. per lb. as to make.

PETITGRAIN. -- Paraguay, 16s. per 1b. spot; shipment, 15s., c.i.f.

PIMENTO. — English-distilled berry from 150s. per lb. Rectified leaf, 19s. 6d. per

PINE. — Pumilionis, 30s. per lb., sylvestris, 9s.; abietis, 15s. to 24s.

ROSEMARY.—Very firm. Spanish, 12s. 6d. per lb., duty paid.

RUE.—Spanish is 23s. 6d. per lb., spot. SAGE. — Spanish 16s, per lb, duty paid nominal. Dalmatian, 18s, 6d.

Sandalwood. — Mysore, 106s, 6d, per lb., spot. East Indian for shipment, 102s.,

SPEARMINT.—American oil on the spot, 26s. per lb.

Tangerine.—Sicilian best quality about 37s. per lb.

THYME.—From 17s. 6d. to 20s. per lb. as to test.

VETIVERT. — Bourbon spot, 85s. to 97s. 6d. per lb.

YLANG YLANG. — Best oil quoted about 145s. per lb.

UNITED STATES REPORT

NEW YORK, JUNE 9: Japanese and Formosan natural CAMPHOR was 10 cents higher at \$1.10 per lb. WHITE SQUILL ROOT, at 15 cents a lb. was down 2 cents. In ESSENTIAL OILS, SPIKE LAV-ENDER, at \$3.15, was up 30 cents. CIN-NAMON LEAF OIL up 15 cents to \$3.40: Florida TANGERINE OIL fell 35 cents to

WORLD TRADE

French Perfumery Exports.—France sold perfumery to El Salvador to a value of U.S.\$147,000, and to Panama to the value of U.S.\$825,000, during

Antibiotics in the Philippines.—The Philippine Pharmaceutical Manufac-Association has asked the Government to build a factory for manufacturing antibiotics, which at present are being imported to an average annual value of 40 million pesos (about £3.67 millions).

Chloroform Manufacture in India.-Preliminary work in connection with the establishment of a proposed chemical industrial estate at Aroor, South India, has been completed. The units already decided upon include the manufacture of chloroform, sodium silicate, fine chemicals and activated charcoal.

Soda Ash Project for West Africa. The South West Africa Co., after investigating the production of soda ash from deposits of sodium-bearing salts (a mixture of carbonate, bicarbonate and sulphate) in the Otjivalunda pans, west of the Etosha pan, has decided to embark immediately on a development programme. developments suggest that South Africa's requirements of soda ash may be met from local resources much sooner than had been envisaged.

Interest in a Ceylon Herb.—A French drug manufacturer has offered to buy from Ceylon at 7s. 6d. per kilo any quantity of the herb Lochnera rosea or Vinca rosea, which grows wild on the country's south-western coast. A director of the French company was in Ceylon recently and made a firm offer to the Ceylon Spices Corporation for roots, stems, leaves and flowers of the plant. A special committee studying the export of ayurvedic herbs has, however, recommended that the export of all such herbs should be banned unless the herbs were grown for export.

Indian Export Promotion. — An Indian trade delegation, sponsored by the Basic Chemicals, Pharmaceuticals and Soaps Export Promotion Council to West Asian and East African countries, has booked export orders worth over £15,000 and expects India's exports of those goods to that area to more than double in the near future. Members of the delegation, who returned to Bombay during May after a month's tour, reported excellent possibilities of Indian collaboration in establishing smallscale chemical and pharmaceutical plants in those countries.

Ceylon Drug Importers.—The Formulary Committee of Ceylon is of the opinion that the Controller of Imports and Exports should restrict the number of importers of drugs because of a lack of facilities for checking on the quality of the drugs. According to the Controller there had been 405 applications from importers for registration to import pharmaceuticals under open general licence during 1964, but 178 of them had no past imports. The Committee recently discussed rumours that inactive and substandard drugs were being freely imported as a fraudulent means of obtaining foreign exchange.

Dutch Chemical Sales.—Total sales of the Dutch chemical industry rose to 3,950 million guilders in 1963 (from 3,500 millions in 1962), according to the annual report of the Vereeniging Nederlandse Chemische Industrie (Association of the Dutch Chemical Industry). Exports rose to 2,366 millions from 2,010 millions. Profit margins, however, were further reduced and there was again overcapacity. Complaints about dumping from overseas were fewer. The report expects the industry's growth, at least in the near future, to continue, but expectations for 1964 are not high owing to wage rises without accompanying gains in productivity.

West German Pharmaceutical Industry. — Imports of medicines from European Economic Community countries into West Germany in 1963 declined, while those from European Free Trade Association countries increased considerably and accounted for more than half of the total. Switzerland was West Germany's largest supplier, and outside Europe United States retained her leading position. Imports of pharmaceuticals were at DM245 millions, 11 per cent. higher in 1963 than in 1962; 60 per cent. came in bulk, mainly because new subsidiaries of foreign companies bought the bulk goods from their parent companies and fabricated them into medicines. This had been specially notable in imports from Switzerland, the United States and Great Britain, Exports of pharmaceuticals were 11.4 per cent. higher in 1963 at DM792 millions, with those to Europe rising by DM58 millions to DM380 millions. Italy remained the largest German customer, but France gained second place from Switzerland, who had bought more in 1962. Increases were especially notable in exports to Africa, particularly the United Arab Republic and to South Africa, while those to Japan increased by 26 per cent. to DM66 millions. Total output of West Germany's pharmaceutical industry rose by DM200 millions to DM3,000 millions, an increase of 8.6 per cent.

NEW COMPANIES

P.C.=Private Company, K.O.-Register A. H. CATLIFF, LTD. (P.C.). — Capital £10,000. To earry on the business of chemists and druggists, etc. Directors: Edward C. Clark, P.C .= Private Company, R.O .= Registered Office. M.P.S., Eileen Clark and Alan H. Catliff, M.P.S. R.O.: 22 High East Street, Dorchester. DIFFICORSE, LTD. (P.C.).—Capital £100. To

carry on the business of chemists, etc. Subscribers: Jean Herbert and Thomas A. Herbert, 156 Strand, London, W.C.2.

E. S. EMERY (WHITECHAPEL). LTD.

(P.C.).—Capital £1,000. To carry on the business of opticians and chemists, etc. Subscribers: Shirley Hart and Averill Hart. R.O.: 4 Old Hall Street, Liverpool, 3.

M. J. EVANS, LTD. (P.C.).—Capital £1,500. To carry on the business of chemists, etc. Subscribers: R. S. C. Lawton and Regina Lawton,

17 Shepherds Bush Green, London, W.12. ALAN MOORE (CHEMISTS), LTD. (P.C.).— Capital £5,000. Directors: Alan Moore, M.P.S., and Harry R. Price. R.O.: Tregenna Hill, St. Ives, Cornwall.

ROBERTS REMEDIES, LTD. (P.C.). Capital £100. To earry on business as herbalists, etc. Directors: Frank Roberts and Millie Roberts.

R.O.: 9 Queen Square, Bristol, 1. STANCLIFFE CHEMISTS, LTD. Capital £100. Subscribers: Stanley H. Lucas and Francis A. Dean. R.O.: 6 Surrey Street, London,

WILLS

MR, E. T. BAKER, Tanglewood, Llanvair Close, South Ascot, Berks, who qualified as a chemist and druggist in 1900, left £4,457 (£4,389)

MR. B. BEER, M.P.S., Lansdown Lodge, Queens Drive, Colwyn Bay, Denbighshire, left £13,755 (£13,695 net),

MR. H. S. BELLAMY, M.P.S., 6 Grove Avenue,

Shipley, Yorks, left £5,979 (£5,916 net),
MR, L. H. T. BRODRIP, M.P.S., 61 Ashlands
Road, Hesters Way, Cheltenham, Glos., left £1,995 (£1,904 net).

MISS M. A. CAMERON, M.P.S., High Street, Gargrave, Yorks, left £4,240 (£4,139 net), Mr. C. B. CLAGUE, Rockwood, 12 Elvaston

Road, Hexham, Northumberland, who qualified as a chemist and druggist in 1914, left £55,028 (£54.731 net).

Mr. R. W. Crosby, M.P.S., Haddon House, Darley, Harrogate, Yorks, left £14,604 (£11,359

MISS NELLIE CUMBERBIRCH, M.P.S., Leigh End. Oak Road, Mottram St. Andrew, nr. Macclesfield, Ches, left £19,559 (£19,484 net).

J. DAVIES, 2 Windsor Way, Haverfordwest, Pembs, who qualified as a chemist and druggist in 1904, left £3,290 (£3,200 net).

MR. L. J. EVANS, M.P.S., Three Ways, Eastern

Parade, Southsea, Hants, left £95,385 (£94,996

MR, J. W. GARDNER, M.P.S., 23 Cossington Road, Canterbury, Kent, left £4,457 (£4,358 net). MR. E. HODGSON, M.P.S., Kered, Lumley Road. Kendal, Westmorland, left £24,686

(£24,151 net).

MR. M. L. JENKINS, M.P.S., Hillcroft, Commercial Street, Aberbargoed, Mon, left £29,948 (£29,276 net).

Mr. D. T. Jones, M.P.S., 43 Bromyard Road, Worcester, left £59,451 (£59,185 net).

Mr. E. Johnston, Wayland, London Road, Harleston, Norfolk, who qualified as a chamics and druggist in 1910, left £31,999 (£31,801 net).

Mr. J. G. KENNEDY, M.P.S.N.I., Ballycraigy Manse, Carnmoney, Newtownabbcy, co. Antrim, Northern Ireland, and Denton Street, Ebute-Metta, Lagos, Nigeria, left personal estate in England and Northern Ireland valued at £4,847.

MR. P. KIERAN, M.P.S.I., Main Street, Ballinamore, co. Leitrim, Irish Republic, left estate in England and the Republic of Ircland valued at

MR. J. C. KINGHORN, M.P.S., The Rosery, Bolts Close, Wells-next-the-Sea, Norfolk, left £8,244 (£8,095 nct).

MR, A. C. KIRKBRIDE, M.P.S., 102 North Road, Longsight, Manchester, Lancs, left £15,381

(£14,356 net).

MISS M. G. KNIGHT, M.P.S., 67 Vesper Road, Kirkstall, Leeds, 5, Yorks, left £13,729 (£12,815 net).

Mr. F. Latham, M.P.S., 10 Upper George Street, Tyldesley, Lanes, left £14,030 (£13,929

MR. L. W. LESTER, M.P.S., 27 St. Edmunds Avenue, Ruislip, Middlesex, left £43,848 (£43,494

MR. H. LOADER, M.P.S., of 130 Acomb Road, York, left £7,521 (£7,371 net).

MR. S. McFall, M.P.S., 159 St. Michaels Hill, Bristol, left £3,684 (£2,873 net).

MR. W. H. MELLUISH, M.P.S., 233 Jamaica Road, Bermondsey, London, S.E.16, left £22,010

(£19,399 net).

MR. J. E. W. H. Monk, Coney Hill, Shottendane Road, Margate, Kent, who qualified as a ehemist and druggist in 1906, left £10,705 (£10,624 net).

Mr. M. H. Montgomery, M.P.S., e/o Ivy Bank, 32 Mapperley Road, Nottingham, left £6,183 (£6,119 net).

Mr. H. Newton, M.P.S., 25 New Road, Kirk-eaton, Huddersfield, Yorks, left £18,549 heaton, Hud (£16,191 net).

MR. G. B. OSBORNE, M.P.S., Moorlands, Ox-

ford Road, Tilehurst, Reading, Berks, left £86,067 (£84,575 net).

MR. W. Rigby, M.P.S., 165 Church Street, Westhoughton, Bolton, Lancs, left £11,868

(£11,750 net).

MR. W. H. SHELDON, M.P.S., Greengates, 121 Church Street, Milnthorpe, Westmorland, left £25,702 (£25,624 net).

PRINT AND PUBLICITY

PRESS ADVERTISING

AGFA, LTD., 27 Regent Street, London, S.W.1: Agfa Rapid cameras and films. In Daily Express, Daily Mail, Daily Mirror, Dally Telegraph, Evening News, the provincial Press and leading photographic magazines from July 1.

BRISTOL-MYERS Co., LTD., South Ruislip, Middlesex: Vitalis men's greaseless hairdressing. In Daily Express and Daily Mirror.

THE BRITISH DRUG HOUSES, LTD., Street, London, N.1: Aquaclene. In Sunday Express, Sunday Mirror, The People, News of the World, Woman, Woman's Own, Woman's Realm, Woman and Home, Reader's Digest and camping and caravan journals.

CYANAMID OF GREAT BRITAIN, LTD., Breck Dept., Bush House, Aldwych, London, W.C.2: Breck hair preparations, In Vogue, Sunday Times colour supplement, Vanity Fair, Flair, She and Modern Woman.

DAE HEALTH LABORATORIES, LTD., 17 Berners Street, London, W.1: Veet depilatory. In national daily and Sunday newspapers, women's monthly magazines and teenage weekly magazines.

LOR, LTD., St. Leonard's Road, Mortlake, London, S.W.14: Velouty powder cream, In women's magazines. DIXOR. LTD...

EUCRYL, LTD., 7- Oakley Road, Southampton, Hants: Dabitoff. In Daily Mirror, Daily Mail, Daily Herald, Daily Express, Sunday Mirror, Woman's Mirror, Woman's Weekly, Tit Bits, Dublin Sunday Independent and Dublin Sunday Press, Dentiline, In Daily Mail, Daily Express, Dally Mirror and Daily Telegraph, Mothaks, In national Press and women's magazines.

T, FULFORD CO. (U.K.), LTD., Cornwall Road, Hatch End, Middlesex: Prodan, In Daily Express, Daily Mirror, Daily Mail and Road. Daily Telegraph,

GOYA, LTD., Badminton Court, Amersham, Bucks: Frenzy perfume, In Woman, Woman's Realm, Woman's Mirror and other women's



DISPLAYING THE PRODUCT: Display pack containing twenty boxes (five tear-off sachets in each) of Continental stomach pacifier (see C. & D., May 30, p. 550) of Philip Harris Medical, Ltd., 144 Edmund Street, Birmingham, 3.

GOLDEN, LTD., Berkeley Square House, Berkeley Square, London, W.1; Ambre Solaire, In Sunday Express, Sunday Times, Daily Express, Daily Mail and Daily Telegraph.

KIMBERLY-CLARK, LTD., Larkfield, nr. stone, Kent.: Kleenex tissues. In Woman's Realm and Woman's Mirror. In Woman, TONI Co., Trevor House, 100 Brompton Road, London, S.W.3: Toni Smooth 'n Sleek uncurly permanent wave, In Daily Mirror, Glasgow Daily Record, Woman's Own, Flair and Vanity

W. WOODWARD, LTD., 43 Clapham Road, London, S.W.9: Woodward's gripe water. In Daily Mirror, News of the World, Daily Express, Sunday Mirror, Woman's Own, True Story, Photoplay, True Romances, Woman's Story, The Baby Book, Mother, Mother and Baby and Parents,

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, June 15

INTERNATIONAL CONFERENCE OF INDUSTRIAL PHAR-MACEUTICAL TECHNOLOGY, Budapest, Hungary. Until June 17.

Tuesday, June 16

REINFORCED PLASTICS EXHIBITION, Earls Court, London, S.W.5. Until June 19.

Wednesday, June 17

HESTER BRANCH, PHARMACEUTICAL SOCIETY,
Odeon cinema, Northgate Street, Chester, at 1.50 p.m. Visit to Manchester (No. 1) Prescription Pricing Bureau.

WEST HERTFORDSHIRE BRANCH, PHARMACEUTICAL Society, The Marlowes, Hemel Hempstead, at 7.30 p.m. Car ramble.

Thursday, June 18

INSTITUTE DF PACKAGING, Ceylon Tea Centre, 22 Lower Regent Street, London, W.1, Exhibition of entries for starpacks competition. Until June

LEICESTER AND LEICESTERSHIRE BRANCH, PHARMA-CEUTICAL SOCIETY, Welford Road car park,

Leicester, at 7 p.m. Treasure hunt, ROYAL SOCIETY, Burlington House, Piccadilly, London, W.1, at 4.30 p.m. Croonlan lecture. Sir Lindor Brown on "The Release and Fate of the Transmitter Liberated by Adrenergic Nerves."

Friday, June 19

ACHEMA CHEMICAL EXHIBITION AND CONGRESS, Frankfort on Main, West Germany, Until June

PESTICIDES GROUP, SOCIETY OF CHEMICAL IN-DUSTRY, Shell Research, Ltd., Sittingbourne, Kent, at 11 a.m. Visit to laboratories,

Sunday, June 21

BRIGHTON AND HOVE BRANCH, PHARMACEUTICAL SOCIETY, Portslade recreation ground, Old Shoreham Road, Portslade, Brighton, at 2.15 p.m. Cricket match.

SOUTH MIDLAND CHEMISTS' GOLFING SOCIETY, Goodwood golf club, nr. Chichester, Sussex. Play for the Mablethorpe trophy.

SOUTH LONDON AND SURREY PHARMACISTS' GOLF-Society, Bordon, Hants, at 10 a.m. Stableford competition for prizes and sweeps.

CONTEMPORARY **THEMES**

Subjects of contributions in current medical and technical periodicals.

IODINE, Response of standardised suspensions of Escherichia coli to. J. Pharm. Pharmacol., June. ANTIFUNGAL activity of some imidazole derivatives. J. Pharm. Pharmacol., June.
ACTINOMYCIN D. A note on the stability of.

J. Pharm. Pharmacol., June.

Antiviral activity of 1-adamantanamine (amantadine). Science, May 15.

CHRONIC TENSION HEADACHE, Treatment of. Lancet, June 6.

AMPICILLIN. The treatment of typboid fever with, Lancet, June 6.

DRUGS. Absorption and distribution of, Nature,

PENICILLIN ALLERGY: its detection by an improved hæmagglutination technique. Nature, June 6.

METHOXYFLURANE anæsthesia in horses and cattle, Vet. Rec., June 6.

COMMERCIAL TELEVISION

Figures in these columns represent the number of appearances of the "spot" during the week

June 21—27		London	Midland	North	Scotland	Wales	South	North-east	Anglia	Ulster	Westward	Border	Grampian	Eireann	Channel Is,	W.&N.Wale
4711		2	2	2	2	2	2	2	2	2	_	_	_	_	_	—
Alka-Seltzer		4	4	4	4	4	4	3	4	4	4	4	4	4	4	4
Anadin tablets		4	5	3	4	7	4	2	4	2	3	—	_	—	1	_
Andrew's liver salt		2	2	_	3	2	3	3	5	_	3	3	4	—	—	—
Anne French preparations			—	—	—	1	—	1	_	1	_	_	_	—	_	_
Askit powders and tablets		_	—	_	14	_	_	—	_	$\overline{}$	$\overline{}$	5	3	_	_	—
Bathjoys		3	2	—	_	2	2	—	3	_	_	$\overline{}$	$\overline{}$	_	_	_
Beecham's powders		5	4	3	3	3	4	4	4	4	3	2	4	_	2	_
pills		_	_	—	_	1	_	1	—	_	1		$\overline{}$	$\overline{}$	_	_
Bisodol		—	—	_	_	—	_	—	_		$\overline{}$	_	3	—	_	_
Carter's little liver pills		—	_	—	—	—	1	—	—	_	\rightarrow	_	_	_	_	
Cuticura preparations		2	2	2	—				—	-	-	_	$\overline{}$	—	_	_
Dentu-creme	***	2	2	2	1	—	3	1	2	1	1	1	3	_	1	—
Dinneford's magnesia		2	\rightarrow	1	—	1	—	-	1	—	_	—	—	—	_	—
Eno "fruit salt"		3	3	3	3	3	3	_	3	3	$\overline{}$	_	_	_	$\overline{}$	—
Freezone		2	1	3	2	—		2	—	_	$\overline{}$	—	3	-	_	_
Germolene		3	3	2	3	3	4	3	3	3	3	_	4	_	$\overline{}$	—
Gillette razor blades		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Haze '		3	3	2	2	2	2	2	2	2	3	2	2	-	3	\rightarrow
Immac		2	2	2	1	3	1	2	2	3	1		3			—
Ingram sbaving cream		_	1	_	1	1	_	1	1	_	1	—	—	_	_	-
Loxene shampoo		3	1	4	3	2	2	3	2	3	3	3	2	4	_	—
Matey		_		—		_	2	_	_	_		_	_		_	_
Max Factor lipsticks			—	_	_			_			_	_	_	2	-	—
Moorland tablets		_	_	3			_	_	_		_	—	_		_	_
Mum body spray		2	_	1	1	2	2	2	1	1	2	_	• 2			—
rollette		1	1	1	1	1	1	1	1	1	1		2		_	—
Parador floral disinfectant		—	_	3	_		—	_				—	_		_	
Phyllosan		3	3	3	—	3	3	2	3	_	_	_	_	_		—
Radox		3	5	_	3	—	3	_	3	—	_	_	$\overline{}$	_		
Rinstead pastilles		5	2	1	3	2	4	3	6	4	3		3		1	-
Setlers		1		2		—	3	_	_	2			_	_	_	
Steradent		1	1	2	2	_	—	2	1	1	2	2	2	—	1	—
Dettol		4	2	5	4	4	5	5	5	3	4	1	3	_		
Le Rouge Baiser lipsticks	•••	3	_	—	_	_	_	_	_	_	_	—	_		4	
Saxin	•••	6	2	2	_	_		_	_			_	—		_	
Scholl sandals		_	—	—	—	—	3	_	_	_		—	_	_	_	

PATENTS

COMPLETE SPECIFICATIONS ACCEPTED

From the "Official Journal (Patents)," May 27

Methods of and apparatus for producing granulates and apparatus for producing granulates and the like from powder substances, E. Hutt. 962.843.

Quaternary amino-coumarans and methods preparing same, Smith, Kline & French Laboratories, Ltd. 962,856.

Process for the production of lmides. Distillers Co., Ltd. 962,857.

17α-chlorethynl steroids and process for the preparation thereof. The British Drug Houses, Ltd. 962,858.

Process for the preparation of 2',3'-o-lsopropylidene purine ribonucleosides. Ajinomoto Co., Inc. 962,864.

Diaralkylamines and salts thereof, Allen & Hanburys, Ltd. 962,918.

for the preparation of emulsifiers for ointment base compositions, Dehydag Deutsche Hydrierwerke, G.m.b.H. 962,919.

Preparation of penicillins, Lepetit, S.p.A, 962,943, N,N'-disubstituted piperazine derivatives, Yoshitomi Pharmaceutical Industries, Ltd. 962,944. Germicidal solutions containing iodine. Bendix Coroporation, 962,955.

Dense sodium carbonate process. Wyandotte Chemicals Corporation, 962,964.

Preparation of antinofuran derivatives. Norwich

Pharmacal Co. 963,049.

Substituted pyrimido [4,5-d] pyrimidines, Smith Kline & French Laboratories, 963,050.

Chemical compounds and insecticidal and fungicidal compositions containing them. Allied Chemical Corporation, 963,052.

Compositions for controlling plant-parasitic nematodes, J. R. Geigy, A.G. 963,066.

Fermentative production of pyrimidine derivatives. Kyowa Hakko Kogyo Co., Ltd. 963,079.

Process for the production of fluorine compounds

from fluosilicic acid, International Minerals and Chemical Corporation. 963,089.

Process for preparing aromatic disulphide, American Cyanamid Co. 963,122.

Therapeutic compositions for premenstrual tension. Lovens Kemiske Fabrik Produktionsaktieselskab, 963,211.

Non-aqueous isoprenaline compositions. Abbott Laboratories, 962,264.

Process for purifying L(+)-lysine. Inventa, A.G. für Forschung und Patent-verwertung, 963,265 6-Chlorobenzisothiazolone and processes for the production thereof. A. Wander, S.A. 963,283. Steroid compounds and processes for their pre-paration, Roussel-Uclaf, 963,288-89.

Piperazine derivatives, Science Union et Compag-nie Soc, Française de Recherche Medicale. 963.304.

Disinfectant compositions, Hygiene Research Unit, Ltd. 963,305.

Permanent waving of hair. L'Oreal, 963,349. Weed-combating agents. Farbenfabriken Bayer,

A.G. 963.355. Substituted cobamides. Glaxo Group, Ltd.

5-Plienyl-2-ethylamino-4-oxazolinone and its pre-

paration, Laboratoires Dausse, 963,375. Smoking composition and method of imparting

flavour thereto. Philip Morris, Inc. 963,378. Preparation of thiophene and alkyl thiophenes.

Pennsalt Chemicals Corporation, 963,385. Phosphoric acid esters. Farbenfabriken Bayer,

A.G. 963,404. Derivatives of cardenolides and bufadienolides and processes for their manufacture, E, Merck,

963,408. Phosphorinanols and method of preparing same, American Cyanamid Co. 963,417.

Phosphoriananones and methods of presame, American Cyanamid Co. 963,418.

Sulphonamides and the manufacture thereof. F. Hoffman-La Roche & Co., A.G. 963,419. Pyrimidine compounds and the preparation there-F. Hoffmann-La Roche & Co., A.G. 963 420.

6-alpha-chloro-16-alpha-methylprogesterone. Lilly & Co. 963,421.

Aromatic amino compounds. Farbenfabriken Bayer, A.G. 963,422.

16-methylene-17α-acetoxy-progesterone derivatives. E. Merck, A.G. 963,427.

Steroids and methods of their preparation, E.

Merck, A.G. 963,428.

Substituted triazines, Carlo Erba, S.p.A. 963,431. Steroid compounds and the preparation thereof. Sterling Drug, Inc. 963,442.

Water-soluble and water-insoluble derivatives of rufomycin. Takeda Chemical Industries, Ltd, 963.456.

Production of unsaturated aliphatic alcohols, Distillers Co., Ltd. 963,458.

British patent specifications relating to the above will be obtainable (price 4s, 6d, each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2, from July 8.

TRADE MARKS

APPLICATIONS ADVERTISED

BEFORE REGISTRATION

From the "Trade Marks Journal," May 21

For vacuum flasks, etc. (21)

KONTUR, SILUETT, 859,673-74, by A.B. Husqvarna Borstfabrik, Huskvarna, Sweden.

For pharmaceutical, veterinary and sanitary substances containing micro-organisms derived from lactobacilli, for use in the treatment of intestinal disorders (5)

SALVEKVICK, B831,922, by Cederroth International, Geneva, Switzerland.

From the "Trade Marks Journal," May 27

For chemical preparations containing antibiotics for use in horticulture and agriculture (1)

ACTI-DIONE, 849,463, by Upjohn, Ltd., Crawley, Sussex.

For chemical products for use in agriculture, horticulture and forestry; manures (natural and artificial) (1)

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For detergents and degreasing preparations (1) UNIDET, 858,482, by Petrofina (Gt. Britain), Ltd., London, S.E.1.

For chemical products used in industry, science and photography; and adhesive substances used in industry (1)

ELAPRIM, 858,600, by Montecatini Societa Generale per l'Industria Mineraria e Chimica, Milan, Italy,

For detergents for use in Industrial or manufacturing processes (1)

PACE, B858,980, by Industrial Soaps, Ltd., London, E.1. SURF, 859,587, by Unilever, Ltd., Port Sunlight, Ches.

For chemical products for Industrial, scientific and photographic purposes (1)
BAYMIDUR, 861,920, by Farbenfabriken

Bayer, A.G., Leverkusen, Germany.

For perfumes, toilet preparations (non-medicated), cosmetic preparations, depilatory preparations, toilet articles (not included in other classes), preparations for the hair, and soaps (3)

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For all goods (3)

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For preparations for setting the halr (3) MADISON WEATHERSET, 857,255, by Charles Alexander & Co., Ltd., West Molesey,

Surrey. For sauitary belts, sanitary knickers and surgical

knickers (5)

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RINOKIN, 845,641, by Gerhardt-Peniek, Ltd., Croydon, Surrey,

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Brentford Middlesex.

For pharmaceutical and veterinary preparations (5) EXPIRAL, 848,868, by Abbott Laboratories, North Chicago, Illinois, U.S.A.

For pharmaceutical preparations and substances, all for veterinary use by injection (5)

BENVET, 849,336, by Organon Laboratories, Ltd., Morden, Surrey.

For pharmaceutical preparations for the treatment of digestive disorders and the llke attments (5)
ORACIDAL, 852,011, by Roche Products,
Ltd., Welwyn Garden City, Herts.

For medicated bath preparations (5)

DELOX, 853,881, by Delafine, Ltd., Brentford, Middlesex.

For balsam being a pharmaceutical preparation

BAUME BENGUE, B854,397, by Bengué & Co., Ltd., Alperton, Wembley, Middlesex. For vaccines for the prevention and treatment of

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For hormonal preparations for veterinary use (5) PROMONE, 855,802, by Upjohn, Ltd., Crawley, Sussex.

For pharmaceutical preparations and substances for the treatment of coughts, colds, chronic broncliitis and similar affections, all being goods for export (5)

Device with words FAMEL SYRUP, B856,385, by Optrex (Overseas), Ltd., Perivale, Middle-

For vaccines for veterinary use (5)

GALOVAX, 856,554, STAMVAX, 859,259, Wellcome Foundation, Ltd., London, N.W.1.

For all goods (5)

Cor all goods (5)
Device, 857,344, by Grossversandhaus Quelle Gustav Schickedanz, K.G., Fürth/Bayern, W. Germany. AGRIBON, 859,593, by Roche Products, Ltd., Welwyn Garden City, Herts. STERAFRESH, 860,463, by Reckitt & Sons, Ltd., Hull, Yorks, V1ALIBRAN, 860,575, by Biofarma, S.A., Neuilly-on-Seine, France. QUADRILINA, 861,088, by Glaxo Laboratories, Ltd., Greenford, Middlesex.

For pharmaceutical preparations (5)

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For inedicated preparations in cream form, containing cod liver oil and antiseptics (5)

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parations and substances (5)
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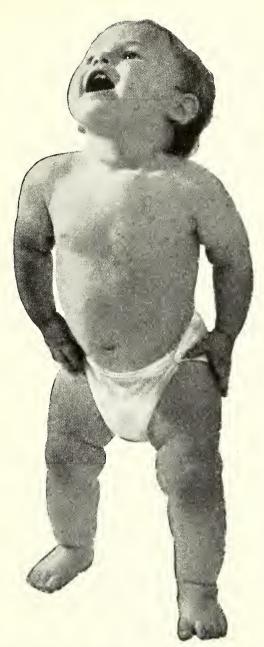
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HYMOSA Lotion is a P.A.T.A. line yielding 33½% profit.

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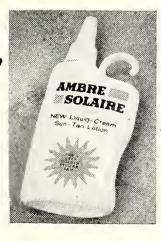
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BARNET, HERTS
Senior Pharmacist
required. Whitley Council salary plus London
Weighting. Apply to Chief Pharmacist,
C 675

BATTERSEA GENERAL HOSPITAL, BATTERSEA PARK, S.W.11

Senior Pharmacist or Pharmacist permanent or locum, required at the above hospital. Applications to Secretary, naming two referees.

HOSPITAL, WELLHOUSE LANE, BARNET, HERTS Locum Pharmacist required, Apply to Hospital Secretary naming two referees.

BISHOP'S STORTFORD HOSPITALS

Locum Pharmacist required for the above Hospitals for the period 13th to 25th July, 1964. Weekly rate £20 19s.

£20 19s.

Applications to the Hospital Secretary, with names of two referees, Herts and Essex General Hospital, Bishop's Stortford, telephone: Bishop's Stortford 3232, Extn. 41.

C 9249

BROADMOOR HOSPITAL, CROWTHORNE, BERKS

Chief Pharmacist
required. Salary £1,057-£1,393, N.H.S. conditions. Unfurnished house available. Applications, naming three referees, to Medical C 9221

BROADMOOR HOSPITAL, CROWTHORNE, BERKS

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CAMBERWELL HOSPITALS MANAGEMENT COMMITTEE

Chief Pharmacist
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Apply Group Secretary. Dulwich Hospital, East Dulwich Grove, S.E.22. Locum considered.

C 9235

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

Locum Pharmacist Locum Pharmacist required for holiday relief duties in Hospitals within the group, June 15-20, 1964, June 15 to July 4, 1964, June 15 to 27, 1964, August 10 to October 3, 1964, and September 7-12, 1964. Salary £19 19s. Applications to the Chief Pharmacist, Metropolitan Hospital, Kingsland Road, E.8, CLI, 6862, C 663

CLAYTON HOSPITAL NORTHGATE, WAKEFIELD

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There will be a vacancy in September for a Post-graduate Pharmaceutical Student who requires one year's practical training before

requires one year's practical training before registration. The Department is situated in a busy general hospital and there is ample opportunity to obtain a sound knowledge of hospital pharmacy, Payment will be at the rate of £509 per annum.

Application form from Group Secretary, Wakefield "A" Group H.M.C., 113 Northgate, Wakefield.

C 9208

HOSPITAL MANAGEMENT COMMITTEE No. 9— WAKEFIELD "A" GROUP

Senior Pharmacist
required for busy sterilising and manufacturing department in a category IV group hospital. Modern equipment includes newly installed rapid cooling fluids autoclave. Post offers excellent experience. Salary £851 to £1,113. Whitley Council conditions
Application form from Group Secretary, 113
Northgate, Wakefield. C9211

CLARE HALL HOSPITAL, SOUTH MIMMS, BARNET, HERTS

Dispensing Assistant required. Whitley Council seale, plus London Weighting. Apply to Hospital Sccretary.

C 9250

ILFORD & DISTRICT HOSPITAL MANAGEMENT COMMITTEE, KING GEORGE HOSPITAL, EASTERN AVENUE, NEWBURY PARK, ILFORD, ESSEX

Dispensing Assistant Part-time, 23 hours per week. Whitley Council pay and conditions. Apply to Group C 9253 Part-time Secretary.

KING'S' LYNN AREA HOSPITALS MANAGEMENT COMMITTEE

Senior Pharmacist

Senior Pharmacist
Applications are invited for the above appointment in the Group Pharmacy Department at the West Norfolk and King's Lynn General Hospital, King's Lynn, Norfolk, Whitley Council conditions of service and salary £851 rising to £1,113, plus £25 higher qualifications allowance where applicable. Supporting staff includes three Dispensing Assistants

Assistants,
Applications, stating age, qualifications, experience, and the names of two referees, to be sent to the Group Secretary, St. James Hospital, Extons Road, King's Lynn, Nor-

LEWISHAM GROUP HOSPITAL MANAGEMENT COMMITTEE

Chief Pharmacist (Category III)
required for St. John's and Hither Green
Hospital, Full details and names of referees
to Group Secretary, Lewisham Hospital,
High Street, S.E.13. C 668

MOORFIELDS EYE HOSPITAL

Applications are invited for the above post at this Post-graduate Teaching Hospital, Interesting post in modern, well-equipped department, Whitley Council salary scale £851—£1,113 per annum plus £45/£55 London Weighting.

Applications to the Chicf Pharmacist, Moorfields Eye Hospital, City Road, London, E.C.1.

NORTH MIDDLESEX HOSPITAL, LONDON, N.18

Dispensing Assistant required in modern Group Pharmacy. Applications giving age, experience and the names of two referees to the Secretary. C 9239

Appointments-Continued

ROYAL FREE HOSPITAL . GROUP, HAMPSTEAD GENERAL HOSPITAL, THE GREEN. HAVERSTOCK HILL, N.W.3

Dispensing Assistant Dispensing Assistant required at the above hospital. Whitley Salary Scale ranging from £452 to £678 plus London Weighting and Qualification Allowance (for applicants over 21 years of age). Apply, naming two referees, to Group Chief Pharmacist, Royal Free Hospital, Gray's Inn Road, London, W.C.1. C 9230

PADDINGTON GENERAL HOSPITAL, HARROW ROAD, W.9

Senior Pharmacist
required at above hospital. Commencing
salary according to previous experience, Applications together with the names and
addresses of two referees to the Hospital Sccretary.

PADDINGTON GENERAL HOSPITAL, HARROW ROAD, W.9

required for indefinite period, Apply immediately to the Hospital Secretary, C 666

QUEEN ELIZABETH II HOSPITAL, WELWYN GARDEN CITY, **HERTS**

Locum Tenens Pharmacist
required immediately until 29th June, 1964.
Single accommodation available, if required.
Whitley Council salary and conditions of service. Applications naming two referees to Hospital Secretary.

C 9246

ROYAL FREE HOSPITAL

Locum Pharmacist required for work at the above hospital. Salary £20 19s, per week. Apply naming two referees, to Group Chief Pharmacist, Royal Free Hospital, Gray's Inn Road, W.C.1.

ROYAL HOSPITAL RICHMOND, SURREY

Senior Pharmacist
Applications are invited for the post of
Senior Pharmacist at the Royal Hospital
(Acute General), Richmond, Surrey, Whitley
Council salary and conditions of service,
plus London Weighting, Applications, giving
details of age, experience, qualifications, and
naming two referees, to Administrative
Officer, immediately. C 9252

SOUTHEND-ON-SEA HOSPITAL MANAGEMENT COMMITTEE

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required in the Pharmacies of the Hospitals in the Southend-on-Sea Group, Salary £485 per annum for post-graduate students; £230 per annum for pre-graduate students; £230 per annum for pre-graduate students; The Hospitals are situated in pleasant surroundings and the post offers excellent opportunities for experience in all branches of pharmaceutical work, including dispensing for in-patients and for patients from a busy Consultative Out-patients' Department, manufacturing, sterilising, dressings and instruments. Applications, stating age, particulars of education, etc., with the names of two referees, should be sent to the Secretary, General Hospital, Southend-on-Sea, as soon as possible. as possible.

ST. ALBANS CITY HOSPITAL. NORMANDY ROAD, ST. ALBANS, HERTS (403 beds)

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ST. ALBANS CITY HOSPITAL, NORMANDY ROAD, ST. ALBANS, HERTS (403 beds)

Locum Tenens Pharmacist

required immediately, Part-time would be considered, Whitley Council salary and conditions of service. Detailed applications giving names of two referees to the Hospital Secretary. C 659

ST. GILES' HOSPITAL, CAMBERWELL, S.E.5

Locum Pharmacist
part-time or sessional required full-time immediately Apply: Chief Pharmacist, St. Giles' Hospital, St. Giles' Road, Camberwell, S.E.5. (RODney 4221.)

ST. MARGARET'S HOSPITAL, EPPING

Dispensing Assistant required at above hospital. Whitley Council scale. Applications to Hospital Secretary.

Part-time Pharmacist required. Whitley Council salaty and conditions, Apply, stating qualifications and experience, and naming last employer, to Hospital Secretary.

ST. GILES' HOSPITAL,
CAMBERWELL, S.E.5
Senior Pharmacist
Applications invited for post of Senior Pharmacist, Salary scale £896 — £1,168 p.a.
Part-time considered.
Further details from or applications to Further details from or applications to Chief Pharmacist, C 9233

ST. JOHN'S & HITHER GREEN HOSPITAL

Pharmacist

required at once. Applications to Hospital Sccretary, St. John's Hospital, Morden Hill, S.E.13,

ST. JOHN'S & HITHER GREEN HOSPITAL

HUSPITAL Locum Pharmacist required, £19 19s, Apply Hospital Secretary, St. John's Hospital, Morden Hill, S.E.13. C 657

SUSSEX MATERNITY HOSPITAL, BRIGHTON

Locum Chief Pharmacist (Category I) required from 9th-19th September, 1964. Applications, with full particulars, to Administrative Officer.

YORK "A" HOSPITAL MANAGEMENT COMMITTEE Pharmacist required for Group Pharmaceutical Service based at the County Hospital, Monkgate,

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Salary scale £761 x £32 (1) x £31 (1) x £37 (3) x £42 (2) to £1,019 p.a.
Applications stating agc, qualifications, experience and names of two referes to Group Secretary, Bootham Park, York,

C 9219 C 9219

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Write in confidence giving details of qualifications, age, experience and salary to:

Office Personnel Manager, HORLICKS LIMITED, Stoke Poges Lane, SLOUGH, Bucks.

C 9242



PHARMACIST FOR INTERNATIONAL DIVISION

We are seeking a young, recently qualified pharmacist to join the Merchandise Section of the International Division. He will be concerned with the manufacture of our products overseas, with sales estimates, statistics, agreements, product registration, trade marks and technical queries. A keen interest in administration and commerce is required.

Applications giving full details of experience, qualifica-tions, age and salary and quoting Ref. No. CD 9 should duoting Ret. No. CD 9 Should be sent to the Personnel Mana-ger, Boots Pure Drug Co. Ltd., Station Street, Nottingham. C 9254 FACTORY MANAGER

for well established prominent Manufacturing Company. Producing and Packaging Proprietary Medicines, Pharmaceutical Specialities, Tablets, Packed Goods, Household and Toilet Requisites.

Location Yorkshire, pleasant rural area; approx. 250 employees. Candidate will be responsible for the efficient running of the Works and overall Factory supervision. He will have had practical experience in this field and be able to contribute ideas to progress, continued growth and plant improve-ments. Ample Technical assistants are employed and emphasis is on the managerial requirements.

Age envisaged 28-40 years. Salary according to qualifications, experience, and age, £1,500 to £2,000, with pension. Housing Assistance, if required.

Applications should give FULLEST DETAILS in first instance and will be in STRICTEST CONFIDENCE.

Write to:- Mr. S. D. Grayson, Director,
STOWE & BOWDEN (MANCHESTER) LTD.,
Advertising Consultants,
Dept. E, St. Andrew's House, Portland Street, Manchester, I. C 9241

ASSISTANT TO EXPORT SALES MANAGER

The Export Sales Manager of a company operating internationally in the advertised pharmaceutical, toiletry and household wax and polish fields requires an assistant for special development projects.

Experience in developing the sales of such products in overseas markets would be a valuable asset, as would a good knowledge of French.

The position entails close working with the Advertising and Manufacturing sections.

The Company -— in the W.C.1 area of London — operates Non-Contributory Pension and Life Assurance schemes. Apply Box C 9245.

WYETH

PHARMACIST-TECHNICAL ASSISTANT

A young pharmacist, male or female, is required in the Wyeth Sales organisation as a technical assistant. The work will be varied and interesting and whilst concerned largely with the technicalities involved in the marketing of new products will also include the handling of technical queries from retail and hospital pharmacists.

Salary to be negotiated. Non-contributory pension scheme.

Please write giving full details of qualifications and experience to:-

Personnel Officer, John Wyeth and Brother Limited, Huntercombe Lane South, Taplow, Maidenhead, Berks

C 9240

Situations Vacant—Continued



PHARMAGIST

A leading international ethical house has a vacancy for a lady pharmacist to lead a small but enthusiastic staff at our Distribution Depot on the Great West Road at Isleworth dealing with customer liaison, technical queries and distribution in general. A pharmaceutical qualification is essential. together with some years' ex-perience in hospital pharmacy or with a pharmaceutical wholesale organisation. Age about 25-35 years.
The post, which has con-

siderable scope, requires initiative and a willingness to accept responsibility.

Conditions of employment are excellent and a good salary will be paid. A contributory pension scheme is in operation

Please apply in confidence, giving full details of age, qualifications and previous experience to:

The Sales Distribution Manager, Geigy Pharmaceutical Company Limited. Roundthorn Estate, Wythenshawe, Manchester 23

C 9243

SALES REPRESENTATIVE. Carters of Shipley, Manufacturing Chemists, require an experienced representative to cover South Wales, South-West England, with Leicester, Coventry and Birmingham. Preferred age 25-40, well-groomed, capable of enlarging existing connections with chemists, herbal and health food stores, Initial salary, commission, etc., negotiable. Write with preliminary details for an application form to D. Fikkert, Carter Bros., Dockfield Road, Shipley, Yorks. C 6138

SITUATIONS WANTED

FACTORY MANAGER/COSMETIC CHEM-IST, experienced in formulating, packaging, production, all types cosmetics and toiletries, and opening cosmetic factories from scratch, seeks sound executive position. Box C 6140.

AGENTS

AGENTS required, all areas, calling on chemists, stores and cosmetic departments, to sell new quality perfume. Introductory offer of \(\frac{1}{4} \) oz. size (12s. 6d. value) for 5s. 11d. retail. 10 per cent. commission. Box C 6154.

AGENTS REQUIRED in West of England, Wales, Lancs, Yorks and N. Ireland, For proprietary sundries. Box C 6150.

SELLING IS MY BUSINESS. Agent covering main outlets S. Wales and West of England seeks good supporting line. You will be happy we made contact. Box C 6146

MANUFACTURER of baby products (personal representation) would like an additional line to carry to all Lancashire chemists, Box C 6145.



ASSISTANT TRAINING OFFICER

to join the Training Department at The Wellcome Chemical Works (Burroughs Wellcome & Co.) Dartford. The Department organises managerial, supervisory and operative training and administers the company education scheme.

Applicants should be pharmacists, A.R.I.C. or science graduates. Relevant experience would be an advantage, but this should not deter those without experience from applying as training in all aspects of the work will be given.

Letters of application quoting AK.52 should be addressed to The Personnel Manager, Wellcome Chemical Works, Dartford, Kent.

C 9225

WANTED

CASH FOR REDUNDANT, rejected or clearing lines. Quantities of any size or description, distance no object, quick decisions, S. & T. Supplies, Ltd., 24 Randall Street, Battersea, S.W.11. Phone; BATtersea

WE WILL PURCHASE for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, etc. No quantity too large, Our representative will call anywhere. Write or telephone: Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledbury Road, London, W.11. Tel.: Park 3137-8.

BUSINESS OPPORTUNITIES

NATIONALLY KNOWN FIRM of manufacturing chemists wishes to extend its range of proprietary medicines and other lines. Suitable products required to be purchased outright or manufactured on a royalty basis. Box C 6143.

MANLY MAN'S BELT. Nationally advertised "obtainable from chemists," 35/-. Full trade terms, Order by waist from Manly Co., Manor House, Worcester Park, Surrey, DERwent 3877. C 635

FOR SALE

COUNTER CASE AND SHOW CASE almost new, cost £110, accept £50, Also National Cash Register, four years old, cost £155, accept £50. 301 Euston Road, Warren Street Tube Station, EUS, 2172, C 6151

LATEST National Cash Register, press down, £3 19s, 11½d. roll/ticket issuing, also two electric Itemising National Model 21 Registers as new. Offers: Trafalgar 2861. C 6149

VERY ATTRACTIVE CONTAINER (polystyrene) for deodorant blocks (or other uses) for sale for part tool cost only, £350, Box C 6148.

STAINLESS TANKS 84 x 72, 48 x 69, 42 x 69 in., all 31 in, deep, Low price, L. Solloman, Ltd., Hampton Street, Salford, 5. Phone: BLA, 4571. C 6116

MISCELLANEOUS

COHAR FOR CARPETS offer 15%—20% saving, all leading makes, carriage free U.K. Huge saving on Venetian Blinds, Sewing Machines, Typewriters, Parquet Tiles, Furniture, Washing Machines, Refrigerators, Lawn Mowers and Power Tools, Showrooms at London, Leicester, Sheffield, Bradford, Leeds, Hull, Middlesbrough, Manchester, Newcastle, Bristol, Hadleigh (S.), Liverpool, Cardiff, Swansca, Aberdeen, Edinburgh, Cambridge, Plymouth, Birmingham, Preston, Blackpool and Belfast, Write — Cohar Distributors, 47 Oswald Street, Glasgow, C.I. Or phone: Glasgow CENtral 8325, Birmingham MIDland 8333, London CHAncery 2345, Manchester CENtral 2321, C600

FOR EPHEDRINE HCL contact Mesco Laboratories Ltd., 6 Broad Street Place, London, E.C.2, LONdon Wall 2185. C 6142

PLASTIC BABY PANTS

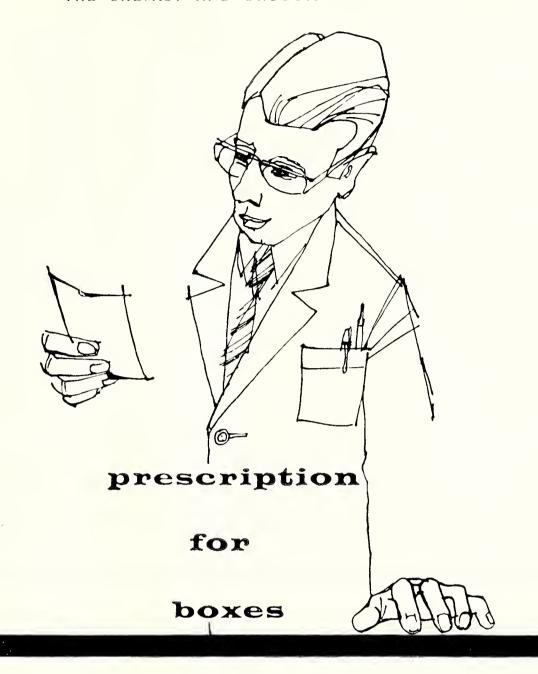
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Since 1839, when John Bradbury Robinson, himself a chemist, commenced making pill boxes at Chesterfield, his enterprise has grown into a world-famed organization. Today Robinson's range of Standard Round boxes for the chemist covers every dispensing requirement to round off "just what the doctor ordered".

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